

PCB Delineation - Site Investigation

**Former Bayonne Barrel and Drum Company Facility
150-154 Raymond Boulevard
Newark, Essex County, NJ**

Prepared for:

**BAYBAR Development, LLC
33 West Street
Bloomfield, New Jersey 07003**

Prepared by:

**Cilli Environmental Group, LLC
245 West Avenue
Long Branch, NJ 07740**

May 1, 2001

301294



**PCB Delineation - Site Investigation
Former Bayonne Barrel and Drum Company Facility
150-154 Raymond Boulevard
Newark, Essex County, NJ**

May 1, 2001.

1.0 INTRODUCTION

This Site Investigation Report (RAR) summarizes the activities conducted regarding the delineation of suspected PCB contamination along the southeast property boundary at the former Bayonne Barrel and Drum Company (BB&D) facility located at 150-154 Raymond Boulevard, Essex County, Newark, New Jersey (Figure 1).

During previous investigations and as reported in "*Bayonne Barrel and Drum Site – Soil Investigation Report*", by Blasland, Bouck & Lee, Inc., dated March 1997, PCB impacted soil was identified in the "Yard Area". This Area of Concern (AOC) is located in the southeast portion of the property bounded by the New Jersey Turnpike (Figure 2).

2.0 SUSPECTED PCB IMPACTED SOIL INVESTIGATION/DELINEATION

On February 19, 2001, Cilli Environmental Group, LLC (CEG) performed a site investigation of the PCB AOC. In order to determine if contamination was present in the surface soil along the property boundary, a soil boring program was conducted.

2.1 Soil Sampling Methodology

The soil samples were collected via decontaminated stainless steel hand augers at locations shown in Figure 2. Surface vegetation, if present, was removed prior to collection of the samples. At each location, the hand auger was advanced with a straight, vertical entry into the soil in order to obtain a representative soil sample. The auger was then placed on an aluminum tray and the sample emptied onto the tray. Each sample increment was emptied onto the tray and then thoroughly mixed prior to filling the laboratory supplied sample container.

A total of 18 soil borings were advanced to a depth of two (2) feet below grade on a 25 foot grid. The borings were visually observed for contamination, logged for physical characteristics, and screened for contamination utilizing a calibrated photoionization detector (PID). One (1) soil sample was collected from each boring and submitted to a New Jersey certified analytical laboratory for PCB analysis.

2.2 Soil Sampling Results

A review of the analytical results indicates that PCB's were present in all 18 soil samples at various concentrations. However, only three (3) samples contained PCB concentration above 50 ppm (the concentration at which the material is considered PCB contaminated under the Toxic Substance Control Act (TSCA). Laboratory analytical results are summarized in Table 1. A complete laboratory data package is included in Attachment 2

TABLE 1
Soil Sampling Results (ppm)
PCB Delineation - Site Investigation
Former Bayonne Barrel and Drum Company Facility
150-154 Raymond Boulevard
Newark, Essex County, NJ

Sample Number	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9
Lab Sample Number	1071-013	1071-011	1071-009	1071-007	1071-005	1071-003	1071-001	1071-016	1071-018
Sampling Date	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01
Sample Depth	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'
PID Readings	0	0	0	0	0	0	0	0	
Aroclor-1248	1.44	59.00	2.17	2.68	3.45	3.07	76.40	20.70	20.40
Aroclor-1254	1.71	35.20	4.82	8.31	4.07	2.85	42.00	10.50	16.80
Total PCB's	3.15	94.20	6.99	10.99	7.52	5.92	118.40	31.20	37.20

TABLE 1 (cont'd)
Soil Sampling Results (ppm)
PCB Delineation - Site Investigation
Former Bayonne Barrel and Drum Company Facility
150-154 Raymond Boulevard
Newark, Essex County, NJ

Sample Number	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18
Lab Sample Number	1071-014	1071-012	1071-010	1071-008	1071-006	1071-004	1071-002	1071-015	1071-017
Sampling Date	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01	2/19/01
Sample Depth	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'	0-2'
PID Readings	0	0	0	0	0	0	0	0	0
Aroclor-1248	7.45	6.55	3.63	6.10	0.83	3.20	0.71	65.80	18.80
Aroclor-1254	9.65	4.08	6.58	14.00	2.23	7.06	0.53	39.10	8.15
Total PCB's	17.10	10.63	10.21	20.10	3.06	10.26	1.24	104.90	26.95

2.3 Delineation of PCB Impacted Soil

Based on previous surface soil sampling results compiled by Blasland, Bouck & Lee, and the results of the February, 2001 surface soil sampling, a statistical modeling the areal extent of PCB concentrations above 50 ppm was performed. As shown in Figure 3, there are four (4) distinct areas (AOC-1A, 1B, 1C, and 1C) on the southeast portion of the property containing PCB's above 50 ppm. The approximate quantity of soil to be removed from each area is estimated to be: *AOC-1A* - 50 cubic yards, *AOC-1B* - 250 cubic yards, *AOC-1C* - 115 cubic yards, and *AOC-1D* - 50 cubic yards. Using a 1.4 conversation ratio (tons/cubic yards) the amount of soil to be removed is approximately 650 tons.

3.0 SITE GEOLOGY

The site is reportedly located in an old floodplain of the Passaic River. Site topography generally slopes to the east-northeast across the site. Elevations of the property range from approximately 10 feet above mean sea level (MSL) to approximately 20 feet above MSL. Surface drainage follows the topography east to a series of storm drains along the eastern property line. The storm drains were constructed during the construction of the NJ Turnpike to re-direct the remaining flow of Harrison creek, which historically traversed this property. The storm drains are believed to discharge to the Passaic River.

The site is underlain by Pleistocene drift deposited during the Wisconsin glaciation. The drift is underlain by the Brunswick Formation. Soil lithologic data presented by Dan Raviv and Associates substantiate the presence of coal cinders and ash across the site to an average depth of ten feet below the surface elevation. Fill is reported at boring BBDC3 by Raviv to be underlain from approximately 10 feet to forty feet "by a medium to coarse grained, well sorted sand that ranges in color from brown to red-brown to dark maroon-brown. The material observed from forty to fifty feet below surface consists of a dark red-brown, uniform, coarse silt. Below fifty feet, small fragments of dark red shale were observed."

Fill material in the southern portions of the site consist of refuse of an undefined nature deposited by the City of Newark during the operations of the old Newark Landfill, currently referred to by the NJDEP as the "15E Sanitary Landfill". Fill material in the central portion of the site includes cinders and ash reportedly from a neighboring power generating facility.

Site geology based on the surface soil borings consisted of Dark Brown fine to coarse SAND and fine to coarse GRAVEL, little silt, trace clay, ash/cinders from 0- 2'.

4.0 QA/QC

The soil samples were placed in an ice chest, maintained at 4°C, for transport to a NJDEP certified laboratory. The soil samples were labeled for analysis of PCB analysis. Chain-of-Custody records were completed and field notes on site conditions were recorded. The sample containers were labeled with an identification number, date and time of collection, site name, and name of person collecting samples.

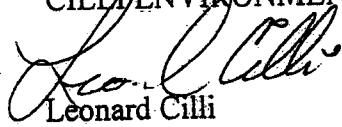
5.0 SUMMARY OF FINDINGS AND CONCLUSIONS

A soil investigation was performed to further delineate the extent of PCB contamination along the southeast portion of the former BB&D property. This delineation was conducted via a soil boring program. Eighteen surface soil samples were collected along the southeast property boundary and analyzed for PCB. A review of the analytical results identified the presence of PCB's above 50 ppm in four (4) distinct areas. The total estimated volume of soil in these four (4) areas impacted by PCB's over 50 ppm is 650 tons.

Based on the above findings, CEG concludes that PCB remediation of the four (4) areas in the "Yard Area" to below TSCA levels can be successfully accomplished via excavation and disposal. Assuming transportation and disposal of the material at the Model City Facility in New York State, the estimated cost for excavation, transportation, disposal, post-excavation sampling and reporting would be \$225,000.00

This report was prepared and is respectfully submitted by:

CILLI ENVIRONMENTAL GROUP, LLC



Leonard Cilli
President

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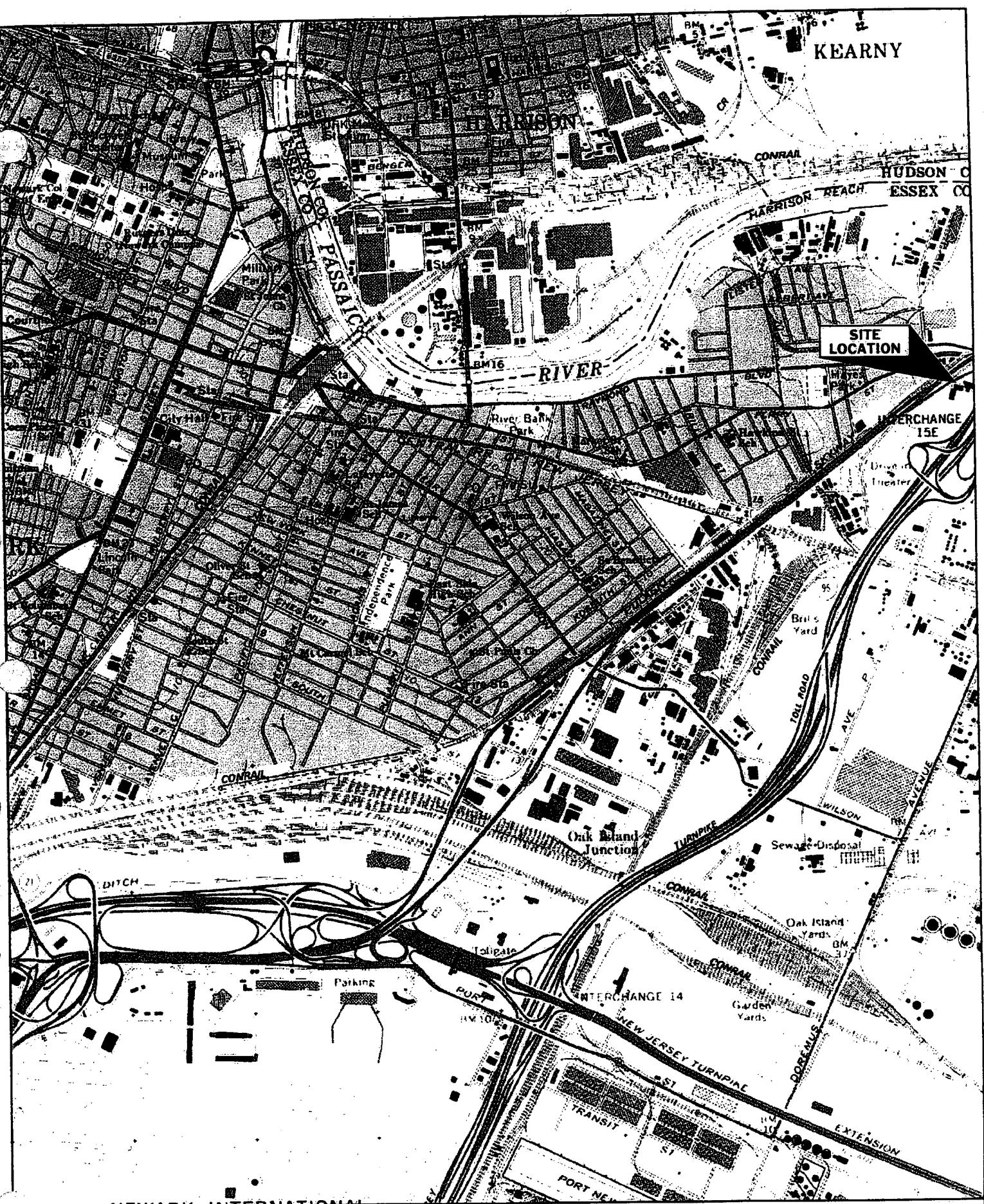
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FIGURES

- Figure 1 – Site Location Map
- Figure 2 – Soil Sample Location Map
- Figure 3 – PCB Delineation Map

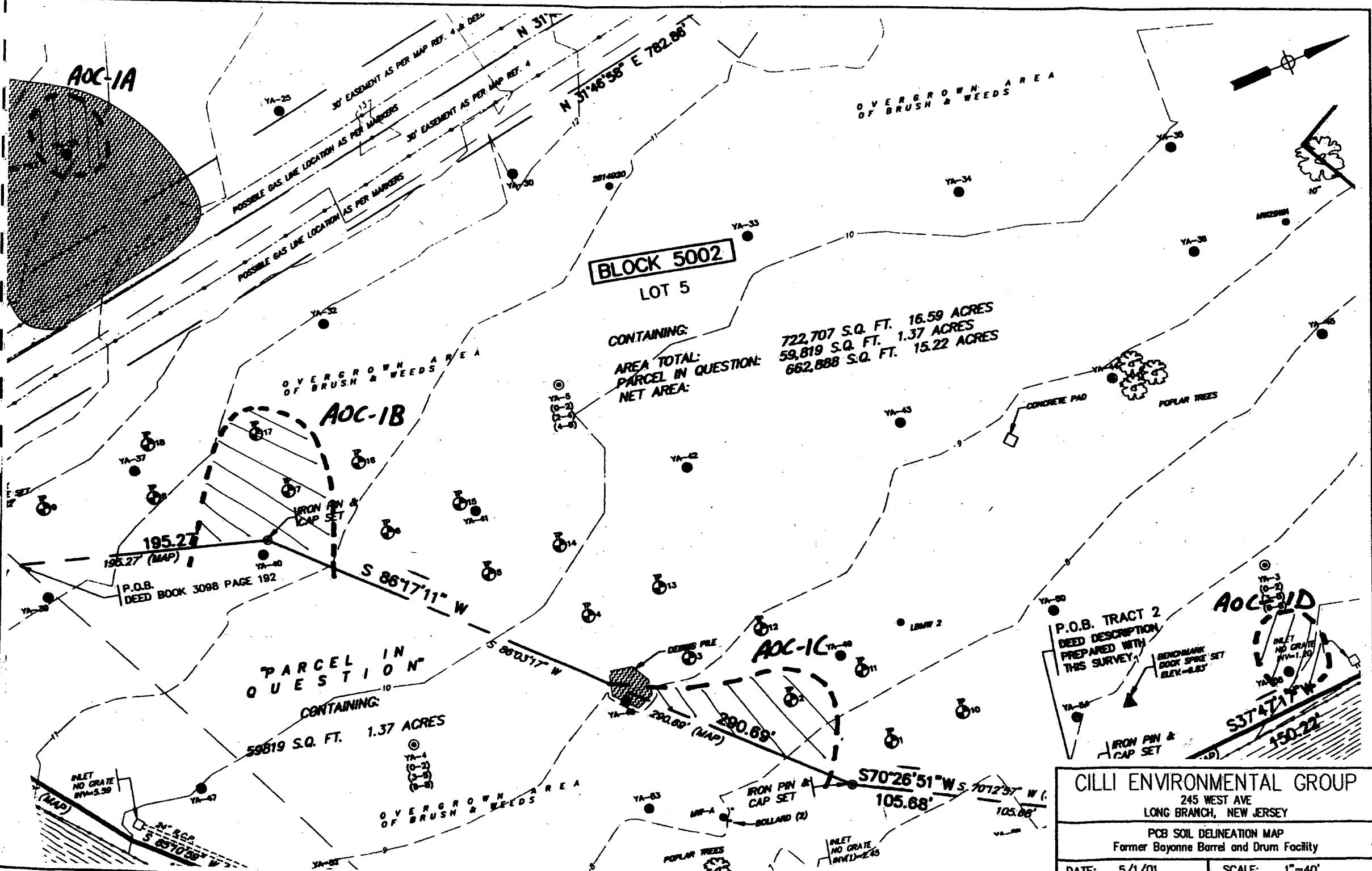
ATTACHMENTS

- Attachment I – Laboratory Analytical Results - Soil Samples



Name: ELIZABETH
Date: 5/2/101
Scale: 1 inch equals 2000 feet

Location: 040° 43' 24.9" N 074° 09' 16.7" W
Caption: Figure 1- USGS Map
Bayonne Barrel and Drum Co.
Newark, New Jersey





Integrated Analytical Laboratories, LLC.

273 Franklin Road
Randolph, N.J. 07869

Phone: 973 361-4252
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ANALYTICAL DATA REPORT

for

Cilli Environmental Group
245 West Ave.
Long Branch, NJ 07740

Project: BAYONNE BARREL

Lab Case Number: E01-1071

Date Report Prepared: February 27, 2001

CLIENT <u>SAMPLE ID</u>	LABORATORY <u>SAMPLE ID</u>
SS-7	1071-001
SS-16	1071-002
SS-6	1071-003
SS-15	1071-004
SS-5	1071-005
SS-14	1071-006
SS-4	1071-007
SS-13	1071-008
SS-3	1071-009
SS-12	1071-010
SS-2	1071-011
SS-11	1071-012
SS-1	1071-013
SS-10	1071-014
SS-17	1071-015
SS-8	1071-016
SS-18	1071-017
SS-9	1071-018

All required protocols were followed during analyses. These data have been reviewed and accepted by

Michael Leftin, Ph.D.

Michael H. Leftin, Ph.D.
Laboratory Director

The liability of Integrated Analytical Laboratories, LLC. is limited to the actual cost of the analyses performed.

**INTEGRATED ANALYTICAL LABORATORIES
CONFORMANCE/NONCONFORMANCE SUMMARY
GC ANALYSIS - PCB'S, PESTICIDES, HERBICIDES**

Lab Case Number: E01 - 1071

	No	Yes
1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).		✓
2. Standards Summary submitted.		✓
3. Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.		✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:	/	
a. PCB's		
b. Pesticides		
c. Herbicides		
5. Surrogate Recoveries meet criteria (if applicable). If not met, list those compounds and their recoveries which fall outside the acceptable range:		✓
a. PCB's		
b. Pesticides		
c. Herbicides		
6. Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:		/
a. PCB's		
b. Pesticides		
c. Herbicides		
7. Retention Time Shift Meet Criteria (if applicable).		✓
8. Extraction Holding Time Met. If not met, list number of days exceeded for each sample:		✓
9. Analysis Holding Time Met. If not met, list number of days exceeded for each sample:		✓
Comments:		

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: Cilli Environmental Group

Project: BAYONNE BARREL

Lab Case No.: E01-1071

PARAMETER(Units)	Lab ID: Client ID: Matrix: Sampled Date:	1071-001			1071-002			1071-003			1071-004		
		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (ppb)													
Aroclor-1016		ND	1420		ND	428		ND	441		ND	412	
Aroclor-1221		ND	1420		ND	428		ND	441		ND	412	
Aroclor-1232		ND	1420		ND	428		ND	441		ND	412	
Aroclor-1242		ND	1420		ND	428		ND	441		ND	412	
Aroclor-1248		76400	1420		708	428		3070	441		3200	412	
Aroclor-1254		42000	1420		533	428		2850	441		7060	412	
Aroclor-1260		ND	1420		ND	428		ND	441		ND	412	
PARAMETER(Units)	Lab ID: Client ID: Matrix: Sampled Date:	1071-005			1071-006			1071-007			1071-008		
		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (ppb)													
Aroclor-1016		ND	410		ND	391		ND	403		ND	421	
Aroclor-1221		ND	410		ND	391		ND	403		ND	421	
Aroclor-1232		ND	410		ND	391		ND	403		ND	421	
Aroclor-1242		ND	410		ND	391		ND	403		ND	421	
Aroclor-1248		3450	410		826	391		2680	403		6100	421	
Aroclor-1254		4070	410		2230	391		8310	403		14000	421	
Aroclor-1260		ND	410		ND	391		ND	403		ND	421	
PARAMETER(Units)	Lab ID: Client ID: Matrix: Sampled Date:	1071-009			1071-010			1071-011			1071-012		
		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (ppb)													
Aroclor-1016		ND	431		ND	420		ND	771		ND	431	
Aroclor-1221		ND	431		ND	420		ND	771		ND	431	
Aroclor-1232		ND	431		ND	420		ND	771		ND	431	
Aroclor-1242		ND	431		ND	420		ND	771		ND	431	
Aroclor-1248		2170	431		3630	420		59000	771		6550	431	
Aroclor-1254		4820	431		6580	420		35200	771		4080	431	
Aroclor-1260		ND	431		ND	420		ND	771		ND	431	

ND = Analyzed for but Not Detected at the MDL

000005

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: Cilli Environmental Group

Project: BAYONNE BARREL

Lab Case No.: E01-1071

PARAMETER(Units)	Lab ID: Client ID: Matrix: Sampled Date:	1071-013			1071-014			1071-015			1071-016		
		Conc	Q	MDL									
PCB's (ppb)													
Aroclor-1016		ND	429		ND	373		ND	852		ND	444	
Aroclor-1221		ND	429		ND	373		ND	852		ND	444	
Aroclor-1232		ND	429		ND	373		ND	852		ND	444	
Aroclor-1242		ND	429		ND	373		ND	852		ND	444	
Aroclor-1248		1440	429		7450	373		65800	852		20700	444	
Aroclor-1254		1710	429		9650	373		39100	852		10500	444	
Aroclor-1260		ND	429		ND	373		ND	852		ND	444	
PCB's (ppb)													
Aroclor-1016		ND	437		ND	423							
Aroclor-1221		ND	437		ND	423							
Aroclor-1232		ND	437		ND	423							
Aroclor-1242		ND	437		ND	423							
Aroclor-1248		18800	437		20400	423							
Aroclor-1254		8150	437		16800	423							
Aroclor-1260		ND	437		ND	423							

ND = Analyzed for but Not Detected at the MDL

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-001

Client ID: SS-7

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4469.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.8g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 200

% Moisture: 8.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		1420
Aroclor-1221	ND		1420
Aroclor-1232	ND		1420
Aroclor-1242	ND		1420
Aroclor-1248	76400		1420
Aroclor-1254	42000		1420
Aroclor-1260	ND		1420

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-002

Client ID: SS-16

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4470.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.2g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 22.6

Compound	Concentration	Q	MDL
Aroclor-1016	ND		428
Aroclor-1221	ND		428
Aroclor-1232	ND		428
Aroclor-1242	ND		428
Aroclor-1248	708		428
Aroclor-1254	533		428
Aroclor-1260	ND		428

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-003

Client ID: SS-6

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4471.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.1g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 24.6

Compound	Concentration	Q	MDL
Aroclor-1016	ND		441
Aroclor-1221	ND		441
Aroclor-1232	ND		441
Aroclor-1242	ND		441
Aroclor-1248	3070		441
Aroclor-1254	2850		441
Aroclor-1260	ND		441

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-004

Client ID: SS-15

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4472.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.0g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 19.1

Compound	Concentration	Q	MDL
Aroclor-1016	ND		412
Aroclor-1221	ND		412
Aroclor-1232	ND		412
Aroclor-1242	ND		412
Aroclor-1248	3200		412
Aroclor-1254	7060		412
Aroclor-1260	ND		412

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-005

Client ID: SS-5

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4473.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.7g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 20.5

Compound	Concentration	Q	MDL
Aroclor-1016	ND		410
Aroclor-1221	ND		410
Aroclor-1232	ND		410
Aroclor-1242	ND		410
Aroclor-1248	3450		410
Aroclor-1254	4070		410
Aroclor-1260	ND		410

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-006

Client ID: SS-14

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4474.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.4g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 15.9

Compound	Concentration	Q	MDL
Aroclor-1016	ND		391
Aroclor-1221	ND		391
Aroclor-1232	ND		391
Aroclor-1242	ND		391
Aroclor-1248	826		391
Aroclor-1254	2230		391
Aroclor-1260	ND		391

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-007

GC Column: DB-5/DB1701P

Client ID: SS-4

Sample wt/vol: 30.5g

Date Received: 02/20/2001

Matrix-Units: Soil- μ g/Kg (ppb)

Date Extracted: 02/22/2001

Dilution Factor: 50

Date Analyzed: 02/23/2001

% Moisture: 18.7

Data file: V4475.D

Compound	Concentration	Q	MDL
Aroclor-1016	ND		403
Aroclor-1221	ND		403
Aroclor-1232	ND		403
Aroclor-1242	ND		403
Aroclor-1248	2680		403
Aroclor-1254	8310		403
Aroclor-1260	ND		403

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-008

Client ID: SS-13

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4476.D

GC Column: DB-5/DB1701P
Sample wt/vol: 30.4g
Matrix-Units: Soil- μ g/Kg (ppb)
Dilution Factor: 50
% Moisture: 21.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		421
Aroclor-1221	ND		421
Aroclor-1232	ND		421
Aroclor-1242	ND		421
Aroclor-1248	6100		421
Aroclor-1254	14000		421
Aroclor-1260	ND		421

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-009

Client ID: SS-3

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4477.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.3g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 23.5

Compound	Concentration	Q	MDL
Aroclor-1016	ND		431
Aroclor-1221	ND		431
Aroclor-1232	ND		431
Aroclor-1242	ND		431
Aroclor-1248	2170		431
Aroclor-1254	4820		431
Aroclor-1260	ND		431

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-010

GC Column: DB-5/DB1701P

Client ID: SS-12

Sample wt/vol: 30.2g

Date Received: 02/20/2001

Matrix-Units: Soil- μ g/Kg (ppb)

Date Extracted: 02/22/2001

Dilution Factor: 50

Date Analyzed: 02/23/2001

% Moisture: 21.1

Data file: V4478.D

Compound	Concentration	Q	MDL
Aroclor-1016	ND		420
Aroclor-1221	ND		420
Aroclor-1232	ND		420
Aroclor-1242	ND		420
Aroclor-1248	3630		420
Aroclor-1254	6580		420
Aroclor-1260	ND		420

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-011

Client ID: SS-2

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/22/2001

Data file: V4447.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.1g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 100

% Moisture: 13.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		771
Aroclor-1221	ND		771
Aroclor-1232	ND		771
Aroclor-1242	ND		771
Aroclor-1248	59000		771
Aroclor-1254	35200		771
Aroclor-1260	ND		771

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-012

Client ID: SS-11

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4480.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.4g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 23.6

Compound	Concentration	Q	MDL
Aroclor-1016	ND		431
Aroclor-1221	ND		431
Aroclor-1232	ND		431
Aroclor-1242	ND		431
Aroclor-1248	6550		431
Aroclor-1254	4080		431
Aroclor-1260	ND		431

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-013

Client ID: SS-1

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4481.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.7g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 24.0

Compound	Concentration	Q	MDL
Aroclor-1016	ND		429
Aroclor-1221	ND		429
Aroclor-1232	ND		429
Aroclor-1242	ND		429
Aroclor-1248	1440		429
Aroclor-1254	1710		429
Aroclor-1260	ND		429

INTEGRATED ANALYTICAL LABORATORIES
CONFORMANCE/NONCONFORMANCE SUMMARY
GC ANALYSIS - PCB'S, PESTICIDES, HERBICIDES

Lab Case Number: E01 - 1091

	No	Yes
1. Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks).	_____	✓
2. Standards Summary submitted.	_____	✓
3. Calibration - Initial calibration performed within 30 days before sample analysis and continuing calibration performed within 12 hrs of the sample analysis.	_____	✓
4. Blank Contamination - If yes, list compounds and concentrations in each blank:	✓	_____
a. PCB's	_____	
b. Pesticides	_____	
c. Herbicides	_____	
5. Surrogate Recoveries meet criteria (if applicable). If not met, list those compounds and their recoveries which fall outside the acceptable range:	_____	✓
a. PCB's	_____	
b. Pesticides	_____	
c. Herbicides	_____	
6. Matrix Spike/Matrix Spike Duplicate meet criteria (if not, list those compounds and their recoveries/% differences which fall outside the acceptable range) acceptable range:	_____	✓
a. PCB's	_____	
b. Pesticides	_____	
c. Herbicides	_____	
7. Retention Time Shift Meet Criteria (if applicable).	_____	✓
8. Extraction Holding Time Met. If not met, list number of days exceeded for each sample:	_____	✓
9. Analysis Holding Time Met. If not met, list number of days exceeded for each sample:	_____	✓
Comments:		


Organic Manager

02.28.2001

Date

000004

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-001

Client ID: SS-7

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4469.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.8g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 200

% Moisture: 8.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		1420
Aroclor-1221	ND		1420
Aroclor-1232	ND		1420
Aroclor-1242	ND		1420
Aroclor-1248	76400		1420
Aroclor-1254	42000		1420
Aroclor-1260	ND		1420

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-002

Client ID: SS-16

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4470.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.2g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 22.6

Compound	Concentration	Q	MDL
Aroclor-1016	ND		428
Aroclor-1221	ND		428
Aroclor-1232	ND		428
Aroclor-1242	ND		428
Aroclor-1248	708		428
Aroclor-1254	533		428
Aroclor-1260	ND		428

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: Cilli Environmental Group
 Project: BAYONNE BARREL
 Lab Case No.: E01-1071

PARAMETER(Units)	Lab ID: Client ID: Matrix: Sampled Date:	1071-013			1071-014			1071-015			1071-016		
		Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (ppb)													
Aroclor-1016		ND	429		ND	373		ND	852		ND	444	
Aroclor-1221		ND	429		ND	373		ND	852		ND	444	
Aroclor-1232		ND	429		ND	373		ND	852		ND	444	
Aroclor-1242		ND	429		ND	373		ND	852		ND	444	
Aroclor-1248		1440	429		7450	373		65800	852	20700		444	
Aroclor-1254		1710	429		9650	373		39100	852	10500		444	
Aroclor-1260		ND	429		ND	373		ND	852		ND	444	
PARAMETER(Units)	Lab ID: Client ID: Matrix: Sampled Date:	1071-017			1071-018								
		Conc	Q	MDL	Conc	Q	MDL						
PCB's (ppb)													
Aroclor-1016		ND	437		ND	423							
Aroclor-1221		ND	437		ND	423							
Aroclor-1232		ND	437		ND	423							
Aroclor-1242		ND	437		ND	423							
Aroclor-1248		18800	437		20400	423							
Aroclor-1254		8150	437		16800	423							
Aroclor-1260		ND	437		ND	423							

ND = Analyzed for but Not Detected at the MDL

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-003

Client ID: SS-6

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4471.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.1g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 24.6

Compound	Concentration	Q	MDL
Aroclor-1016	ND		441
Aroclor-1221	ND		441
Aroclor-1232	ND		441
Aroclor-1242	ND		441
Aroclor-1248	3070		441
Aroclor-1254	2850		441
Aroclor-1260	ND		441

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-004

Client ID: SS-15

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4472.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.0g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 19.1

Compound	Concentration	Q	MDL
Aroclor-1016	ND		412
Aroclor-1221	ND		412
Aroclor-1232	ND		412
Aroclor-1242	ND		412
Aroclor-1248	3200		412
Aroclor-1254	7060		412
Aroclor-1260	ND		412

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-005

Client ID: SS-5

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4473.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.7g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 20.5

Compound	Concentration	Q	MDL
Aroclor-1016	ND		410
Aroclor-1221	ND		410
Aroclor-1232	ND		410
Aroclor-1242	ND		410
Aroclor-1248	3450		410
Aroclor-1254	4070		410
Aroclor-1260	ND		410

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-006

Client ID: SS-14

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4474.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.4g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 15.9

Compound	Concentration	Q	MDL
Aroclor-1016	ND		391
Aroclor-1221	ND		391
Aroclor-1232	ND		391
Aroclor-1242	ND		391
Aroclor-1248	826		391
Aroclor-1254	2230		391
Aroclor-1260	ND		391

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-007

Client ID: SS-4

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4475.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.5g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 18.7

Compound	Concentration	Q	MDL
Aroclor-1016	ND		403
Aroclor-1221	ND		403
Aroclor-1232	ND		403
Aroclor-1242	ND		403
Aroclor-1248	2680		403
Aroclor-1254	8310		403
Aroclor-1260	ND		403

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-008

Client ID: SS-13

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4476.D

GC Column: DB-5/DB1701P
Sample wt/vol: 30.4g
Matrix-Units: Soil- μ g/Kg (ppb)
Dilution Factor: 50
% Moisture: 21.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		421
Aroclor-1221	ND		421
Aroclor-1232	ND		421
Aroclor-1242	ND		421
Aroclor-1248	6100		421
Aroclor-1254	14000		421
Aroclor-1260	ND		421

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-009

Client ID: SS-3

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4477.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.3g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 23.5

Compound	Concentration	Q	MDL
Aroclor-1016	ND		431
Aroclor-1221	ND		431
Aroclor-1232	ND		431
Aroclor-1242	ND		431
Aroclor-1248	2170		431
Aroclor-1254	4820		431
Aroclor-1260	ND		431

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-010

GC Column: DB-5/DB1701P

Client ID: SS-12

Sample wt/vol: 30.2g

Date Received: 02/20/2001

Matrix-Units: Soil- μ g/Kg (ppb)

Date Extracted: 02/22/2001

Dilution Factor: 50

Date Analyzed: 02/23/2001

% Moisture: 21.1

Data file: V4478.D

Compound	Concentration	Q	MDL
Aroclor-1016	ND		420
Aroclor-1221	ND		420
Aroclor-1232	ND		420
Aroclor-1242	ND		420
Aroclor-1248	3630		420
Aroclor-1254	6580		420
Aroclor-1260	ND		420

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-011

Client ID: SS-2

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/22/2001

Data file: V4447.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.1g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 100

% Moisture: 13.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		771
Aroclor-1221	ND		771
Aroclor-1232	ND		771
Aroclor-1242	ND		771
Aroclor-1248	59000		771
Aroclor-1254	35200		771
Aroclor-1260	ND		771

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-012

Client ID: SS-11

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4480.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.4g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 23.6

Compound	Concentration	Q	MDL
Aroclor-1016	ND		431
Aroclor-1221	ND		431
Aroclor-1232	ND		431
Aroclor-1242	ND		431
Aroclor-1248	6550		431
Aroclor-1254	4080		431
Aroclor-1260	ND		431

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-013

Client ID: SS-1

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4481.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.7g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 24.0

Compound	Concentration	Q	MDL
Aroclor-1016	ND		429
Aroclor-1221	ND		429
Aroclor-1232	ND		429
Aroclor-1242	ND		429
Aroclor-1248	1440		429
Aroclor-1254	1710		429
Aroclor-1260	ND		429

INTEGRATED ANALYTICAL LABORATORIES, LLC.

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INTEGRATED ANALYTICAL LABORATORIES, LLC.

MATRIX QUALIFIERS

- A -** Indicates the sample is an Aqueous matrix.
- O -** Indicates the sample is an Oil matrix.
- S -** Indicates the sample is a Soil, Sludge or Sediment matrix.
- X -** Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

DATA QUALIFIERS

- B -** Indicates the analyte was found in the Blank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- C -** Common Laboratory Contaminant.
- D -** The compound was reported from the Diluted analysis.
- D.F. -** Dilution Factor.
- E -** Estimated concentration, reported results are outside the calibrated range of the instrument.
- J -** Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL -** Method Detection Limit.
- MI -** Indicates compound concentration could not be determined due to Matrix Interferences.
- NA -** Not Applicable.
- ND -** Indicates the compound was analyzed for but Not Detected at the MDL.

REPORT QUALIFIERS

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

INTEGRATED ANALYTICAL LABORATORIES, LLC.

CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received eighteen (18) soil sample(s) from Cilli Environmental Group (Project: BAYONNE BARREL) on February 20, 2001 for the analysis of:

(18) PCB's

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Audrey Flynn

Reviewed by

2/27/01

Date

000002

INTEGRATED ANALYTICAL LABORATORIES, LLC.

LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E01-1071

	Check If Complete
1. Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation.	✓
2. Table of Contents.	✓
3. Summary Sheets listing analytical results for all targeted and non-targeted compounds.	✓
4. Summary Table cross-referencing Field ID's vs. Lab ID's.	✓
5. Document bound, paginated and legible.	✓
6. Chain of Custody.	✓
7. Methodology Summary.	✓
8. Laboratory Chronicle and Holding Time Check.	✓
9. Results submitted on a dry weight basis (if applicable).	✓
10. Method Detection Limits.	✓
11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP.	✓
12. NonConformance Summary.	✓

Quindamayur
QC Reviewed by

2/27/01
Date

000003

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-014

Client ID: SS-10

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4482.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.1g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 11.0

Compound	Concentration	Q	MDL
Aroclor-1016	ND		373
Aroclor-1221	ND		373
Aroclor-1232	ND		373
Aroclor-1242	ND		373
Aroclor-1248	7450		373
Aroclor-1254	9650		373
Aroclor-1260	ND		373

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-015

Client ID: SS-17

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4483.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.4g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 100

% Moisture: 22.8

Compound	Concentration	Q	MDL
Aroclor-1016	ND		852
Aroclor-1221	ND		852
Aroclor-1232	ND		852
Aroclor-1242	ND		852
Aroclor-1248	65800		852
Aroclor-1254	39100		852
Aroclor-1260	ND		852

000021

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-016

GC Column: DB-5/DB1701P

Client ID: SS-8

Sample wt/vol: 30.5g

Date Received: 02/20/2001

Matrix-Units: Soil- μ g/Kg (ppb)

Date Extracted: 02/22/2001

Dilution Factor: 50

Date Analyzed: 02/23/2001

% Moisture: 26.2

Data file: V4487.D

Compound	Concentration	Q	MDL
Aroclor-1016	ND		444
Aroclor-1221	ND		444
Aroclor-1232	ND		444
Aroclor-1242	ND		444
Aroclor-1248	20700		444
Aroclor-1254	10500		444
Aroclor-1260	ND		444

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-017

Client ID: SS-18

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4488.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.5g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 24.9

Compound	Concentration	Q	MDL
Aroclor-1016	ND		437
Aroclor-1221	ND		437
Aroclor-1232	ND		437
Aroclor-1242	ND		437
Aroclor-1248	18800		437
Aroclor-1254	8150		437
Aroclor-1260	ND		437

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: CILLI/BAYONNE BARRELL

Lab ID: 1071-018

Client ID: SS-9

Date Received: 02/20/2001

Date Extracted: 02/22/2001

Date Analyzed: 02/23/2001

Data file: V4489.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.5g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 50

% Moisture: 22.4

Compound	Concentration	Q	MDL
Aroclor-1016	ND		423
Aroclor-1221	ND		423
Aroclor-1232	ND		423
Aroclor-1242	ND		423
Aroclor-1248	20400		423
Aroclor-1254	16800		423
Aroclor-1260	ND		423

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METHODOLOGY SUMMARY

<u>Analytical Parameter</u>	<u>Aqueous Samples</u>	<u>Soil/Other Samples</u>
	<u>Method #</u>	<u>Method #</u>
PCB's	NA	EPA 8082

PCB METHOD BLANK SUMMARY

Lab File ID: V4436.D

Instrument ID: GC-V

Date Extracted: 02/22/2001

Matrix: SOIL

Date Analyzed: 02/22/2001

Time Analyzed: 15:27

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS & MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
SS-2	1071-011	02/22/2001	21:06
SS-7	1071-001	02/23/2001	10:13
SS-16	1071-002	02/23/2001	10:44
SS-6	1071-003	02/23/2001	11:15
SS-15	1071-004	02/23/2001	11:45
SS-5	1071-005	02/23/2001	12:16
SS-14	1071-006	02/23/2001	12:47
SS-4	1071-007	02/23/2001	13:18
SS-13	1071-008	02/23/2001	13:49
SS-3	1071-009	02/23/2001	14:20
SS-12	1071-010	02/23/2001	14:51
SS-11	1071-012	02/23/2001	15:52
SS-1	1071-013	02/23/2001	16:23
SS-10	1071-014	02/23/2001	16:54
SS-17	1071-015	02/23/2001	17:25
SS-8	1071-016	02/23/2001	19:28
SS-18	1071-017	02/23/2001	19:59
SS-9	1071-018	02/23/2001	20:30
PCB	1074-001-MS1	02/23/2001	21:32
PCB	1074-001-MSD1	02/23/2001	22:03
PCB	PBS0221-MS1	02/23/2001	22:34

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Client/Project: NA

Lab ID: 0222-BLK1

Client ID: (1061..1071)

Date Received: NA

Date Extracted: 02/22/2001

Date Analyzed: 02/22/2001

Data file: V4436.D

GC Column: DB-5/DB1701P

Sample wt/vol: 30.0g

Matrix-Units: Soil- μ g/Kg (ppb)

Dilution Factor: 1

% Moisture: 0

Compound	Concentration	Q	MDL
Aroclor-1016	ND		6.68
Aroclor-1221	ND		6.68
Aroclor-1232	ND		6.68
Aroclor-1242	ND		6.68
Aroclor-1248	ND		6.68
Aroclor-1254	ND		6.68
Aroclor-1260	ND		6.68

PCB INITIAL CALIBRATION SUMMARY

Date Analyzed: 02/20/2001

Instrument ID: Varian 3400
GC Column (1st): DB-5

Data File:

V4351.D V4352.D V4353.D V4354.D V4355.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	200	500	1000	2000	4000		FROM	TO
Aroclor-1016	5.40	5.39	5.39	5.39	5.39	5.39	5.32	5.46
Aroclor-1016 {2}	6.46	6.45	6.45	6.44	6.45	6.45	6.38	6.52
Aroclor-1016 {3}	6.89	6.88	6.88	6.88	6.88	6.88	6.81	6.95
Aroclor-1016 {4}	8.74	8.73	8.73	8.72	8.73	8.73	8.66	8.80
Aroclor-1016 {5}	9.21	9.20	9.21	9.19	9.20	9.20	9.13	9.27
Aroclor-1221			4.19				4.12	4.26
Aroclor-1221 {2}			5.04				4.97	5.11
Aroclor-1221 {3}			5.27				5.20	5.34
Aroclor-1221 {4}			5.40				5.33	5.47
Aroclor-1221 {5}			6.46				6.39	6.53
Aroclor-1232			5.39				5.32	5.46
Aroclor-1232 {2}			6.40				6.33	6.47
Aroclor-1232 {3}			7.89				7.82	7.96
Aroclor-1232 {4}			8.73				8.66	8.80
Aroclor-1232 {5}			9.57				9.50	9.64
Aroclor-1242			6.90				6.83	6.97
Aroclor-1242 {2}			8.75				8.68	8.82
Aroclor-1242 {3}			9.32				9.25	9.39
Aroclor-1242 {4}			10.53				10.46	10.60
Aroclor-1242 {5}			11.04				10.97	11.11
Aroclor-1248			7.62				7.55	7.69
Aroclor-1248 {2}			8.73				8.66	8.80
Aroclor-1248 {3}			9.30				9.23	9.37
Aroclor-1248 {4}			10.50				10.43	10.57
Aroclor-1248 {5}			11.02				10.95	11.09
Aroclor-1254			11.25				11.18	11.32
Aroclor-1254 {2}			12.07				12.00	12.14
Aroclor-1254 {3}			13.22				13.15	13.29
Aroclor-1254 {4}			13.96				13.89	14.03
Aroclor-1254 {5}			14.83				14.76	14.90
Aroclor-1260	14.83	14.82	14.83	14.81	14.82	14.82	14.75	14.89
Aroclor-1260 {2}	15.39	15.38	15.39	15.37	15.38	15.38	15.31	15.45
Aroclor-1260 {3}	17.03	17.03	17.04	17.01	17.02	17.03	16.96	17.10
Aroclor-1260 {4}	17.96	17.95	17.96	17.94	17.95	17.95	17.88	18.02
Aroclor-1260 {5}	20.00	20.00	20.00	19.98	19.99	20.00	19.93	20.07

02/20/2001

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-V

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>4.57</u>	DCB 1	<u>22.08</u>	TCMX 2	<u>5.03</u>	DCB 2	<u>23.35</u>
--------	-------------	-------	--------------	--------	-------------	-------	--------------

Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX1 RT #	DCB1 RT #	TCMX2 RT #	DCB2 RT #
(1061..1071)	0222-BLK1		02/22/2001	15:27	4.57	22.08	5.03	23.35
SS-2	1071-011		02/22/2001	21:06	D	D	D	D

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene (0.05 Minutes)

DCB = Decachlorobiphenyl (0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-VColumn: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>4.57</u>	DCB 1	<u>22.08</u>	TCMX 2	<u>5.03</u>	DCB 2	<u>23.35</u>
--------	-------------	-------	--------------	--------	-------------	-------	--------------

Client ID	Lab	Date	Time	TCMX1	DCB1	TCMX2	DCB2
	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
SS-7	1071-001	02/23/2001	10:13	D	D	D	D
SS-16	1071-002	02/23/2001	10:44	4.57	22.07	5.03	23.34
SS-6	1071-003	02/23/2001	11:15	4.57	22.06	5.03	23.34
SS-15	1071-004	02/23/2001	11:45	4.57	22.05	5.03	23.33
SS-5	1071-005	02/23/2001	12:16	4.57	22.06	5.03	23.33
SS-14	1071-006	02/23/2001	12:47	4.57	22.07	5.03	23.34
SS-4	1071-007	02/23/2001	13:18	4.57	22.08	5.04	23.35
SS-13	1071-008	02/23/2001	13:49	4.57	22.05	5.03	23.36
SS-3	1071-009	02/23/2001	14:20	4.57	22.04	5.03	23.36
SS-12	1071-010	02/23/2001	14:51	4.57	22.05	5.04	23.36
SS-11	1071-012	02/23/2001	15:52	4.58	22.09	5.04	23.38
SS-1	1071-013	02/23/2001	16:23	4.58	22.09	5.04	23.37
SS-10	1071-014	02/23/2001	16:54	4.58	22.10	5.04	23.38
SS-17	1071-015	02/23/2001	17:25	D	D	D	D
SS-8	1071-016	02/23/2001	19:28	4.58	22.10	5.05	23.38
SS-18	1071-017	02/23/2001	19:59	4.58	22.11	5.05	23.39
SS-9	1071-018	02/23/2001	20:30	4.58	22.11	5.05	23.38
PCB	1074-001-MS1	02/23/2001	21:32	4.59	22.11	5.05	23.39
PCB	1074-001-MSD1	02/23/2001	22:03	4.58	22.11	5.05	23.38
PCB	PBS0221-MS1	02/23/2001	22:34	4.58	22.10	5.05	23.38

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene (0.05 Minutes)DCB = Decachlorobiphenyl (0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

Quantification Report

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4469.D\ADC1A.CH Vial: 5
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4469.D\ADC1B.CH
 Acq On : 23 Feb 2001 10:13 Operator:
 Sample : SS-7, 1071-001, S, 30.8g, 8.8, 02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 12:09:26 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

Target Compounds			0	0	N.D.	N.D.
Sum Aroclor-1016					0.000	0.000
Average Aroclor-1016						
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	7.61	8.93	11065166	9253771	841.148	857.471
24) L6 Aroclor-1248	{2}	8.71	10.04	9847515	21532822	2280.597
25) L6 Aroclor-1248	{3}	9.28	10.78	9385595	24978704	2176.539
26) L6 Aroclor-1248	{4}	10.48	11.10	33311044	22775232	2835.549m
27) L6 Aroclor-1248	{5}	10.99	11.74	26990208	8984163	2598.486
Sum Aroclor-1248				90599528	87524693	10732.319
Average Aroclor-1248					2146.464	2010.483
28) L7 Aroclor-1254	11.23	12.70	17830547	13360762	1329.333	1341.636
29) L7 Aroclor-1254	{2}	12.05	13.80	17695829	10105973	1932.319
30) L7 Aroclor-1254	{3}	13.20	14.98	29881636	19949575	1706.221
31) L7 Aroclor-1254	{4}	13.93	15.47	10047165	8289118	392.517
32) L7 Aroclor-1254	{5}	14.80	16.61	12303023	15708200	535.617
Sum Aroclor-1254				87758200	67413628	5896.006
Average Aroclor-1254					1179.201	1264.502
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 Mon Feb 26 08:53:50 2001 V3400 Page 1
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QUANTIFICATION REPORT

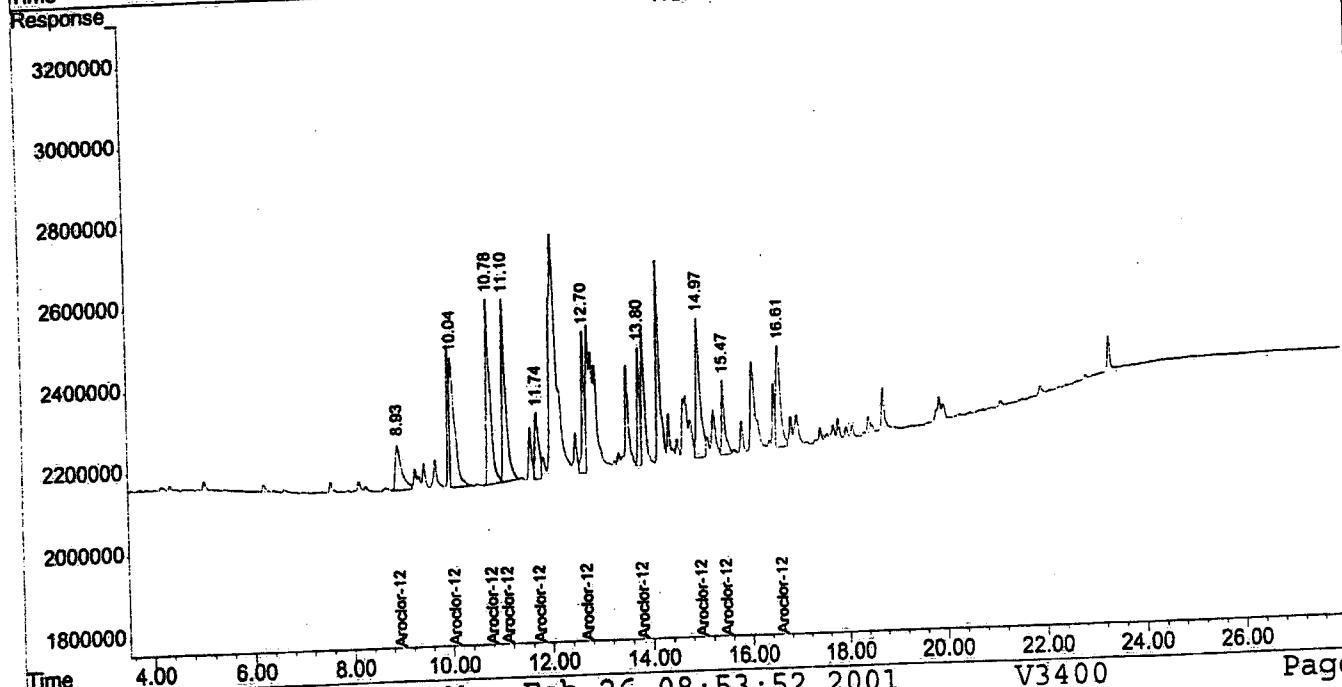
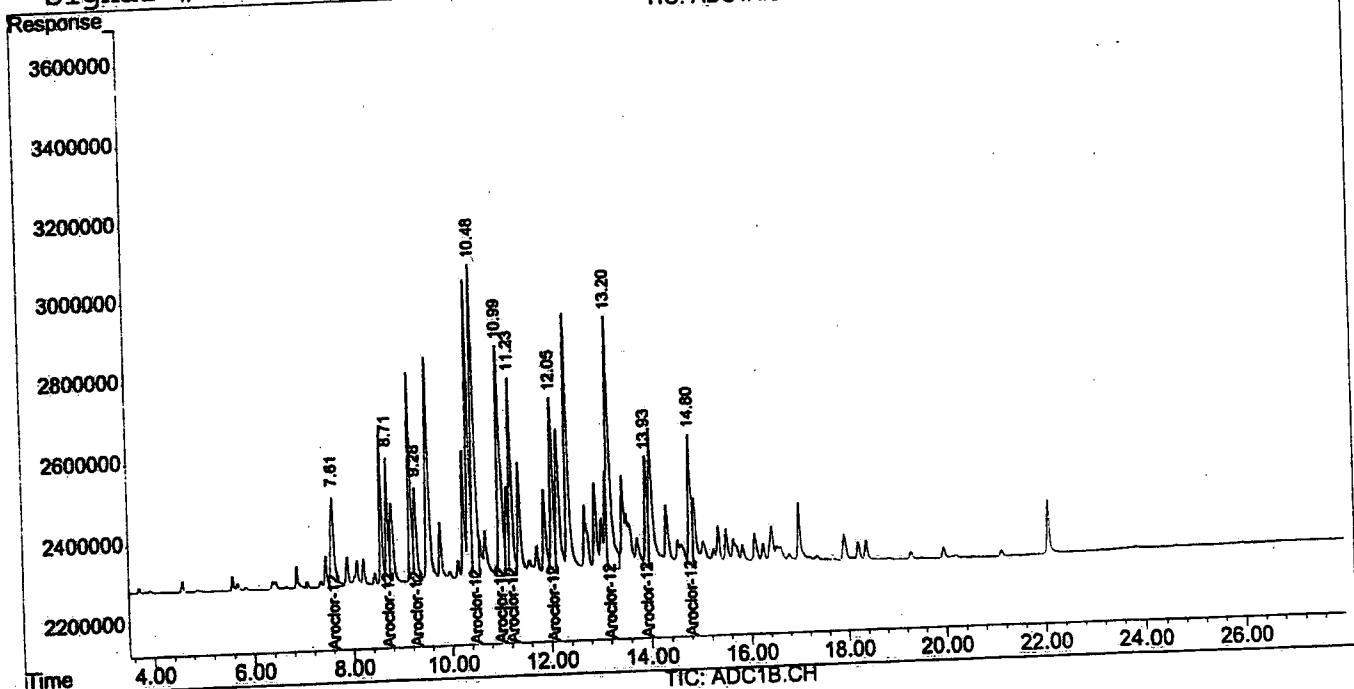
Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4469.D\ADC1A.CH Vial: 5
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4469.D\ADC1B.CH
 Acq On : 23 Feb 2001 10:13 Operator:
 Sample : SS-7,1071-001,S,30.8g,8.8,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01; Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 13:03 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :

Signal #2 Phase:
 Signal #2 Info :

TIC: ADC1A.CH



QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4470.D\ADC1A.CH Vial: 6
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4470.D\ADC1B.CH
 Acq On : 23 Feb 2001 10:44 Operator:
 Sample : SS-16,1071-002,S,30.2g,22.6,02/22/01 Inst : V 3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 12:09:32 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

1) S TCMX	4.57	5.03	1743842	1706340	1.933	2.145
Spiked Amount	100.000		Recovery	=	1.93%	2.15%
2) S DCB	22.07	23.34	1999643	4654724	2.474	8.593 #
Spiked Amount	100.000		Recovery	=	2.47%	8.59%

Target Compounds

Sum Aroclor-1016	0	0	N.D.	N.D.
Average Aroclor-1016			0.000	0.000

Sum Aroclor-1221	0	0	N.D.	N.D.
Average Aroclor-1221			0.000	0.000

Sum Aroclor-1232	0	0	N.D.	N.D.
Average Aroclor-1232			0.000	0.000

Sum Aroclor-1242	0	0	N.D.	N.D.
Average Aroclor-1242			0.000	0.000

23) L6 Aroclor-1248	7.60	8.97	355567	224493	27.029m	20.802m
24) L6 Aroclor-1248	{2}	8.71	186325	450913	43.151m	45.731m
25) L6 Aroclor-1248	{3}	9.28	234625	563558	54.410m	60.520m
26) L6 Aroclor-1248	{4}	10.48	1200368	582158	102.179	60.197m#
27) L6 Aroclor-1248	{5}	10.99	1080526	224816	104.028	49.387m#
Sum Aroclor-1248			3057409	2045938	330.798	236.637
Average Aroclor-1248					66.160	47.327

28) L7 Aroclor-1254	11.22	12.69	540111	460516	40.267	46.243m
29) L7 Aroclor-1254	{2}	12.04	694773	562630	75.867	85.825m
30) L7 Aroclor-1254	{3}	13.19	1441513	1083519	82.309	100.721
31) L7 Aroclor-1254	{4}	13.93	491720	457577	19.210	38.229m#
32) L7 Aroclor-1254	{5}	14.80	727727	809343	31.682m	45.974 #
Sum Aroclor-1254			3895843	3373584	249.335	316.993
Average Aroclor-1254					49.867	63.399

Sum Aroclor-1260	0	0	N.D.	N.D.
Average Aroclor-1260			0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%

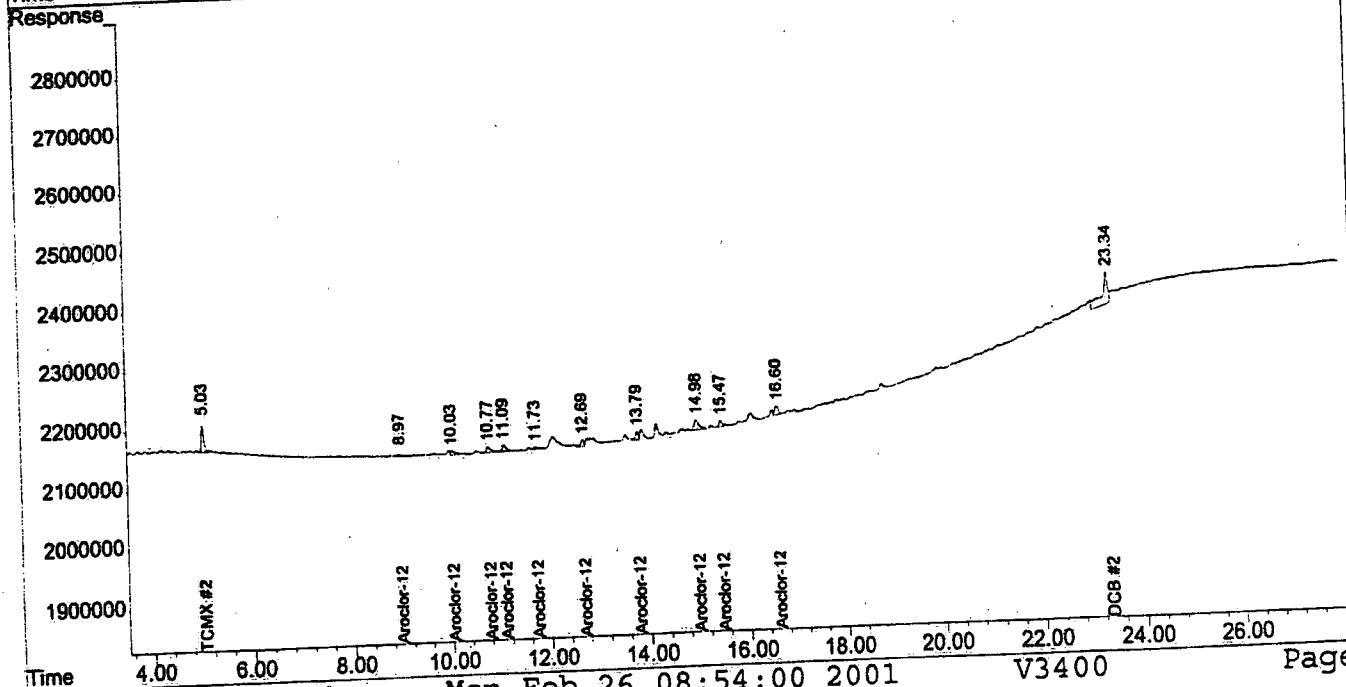
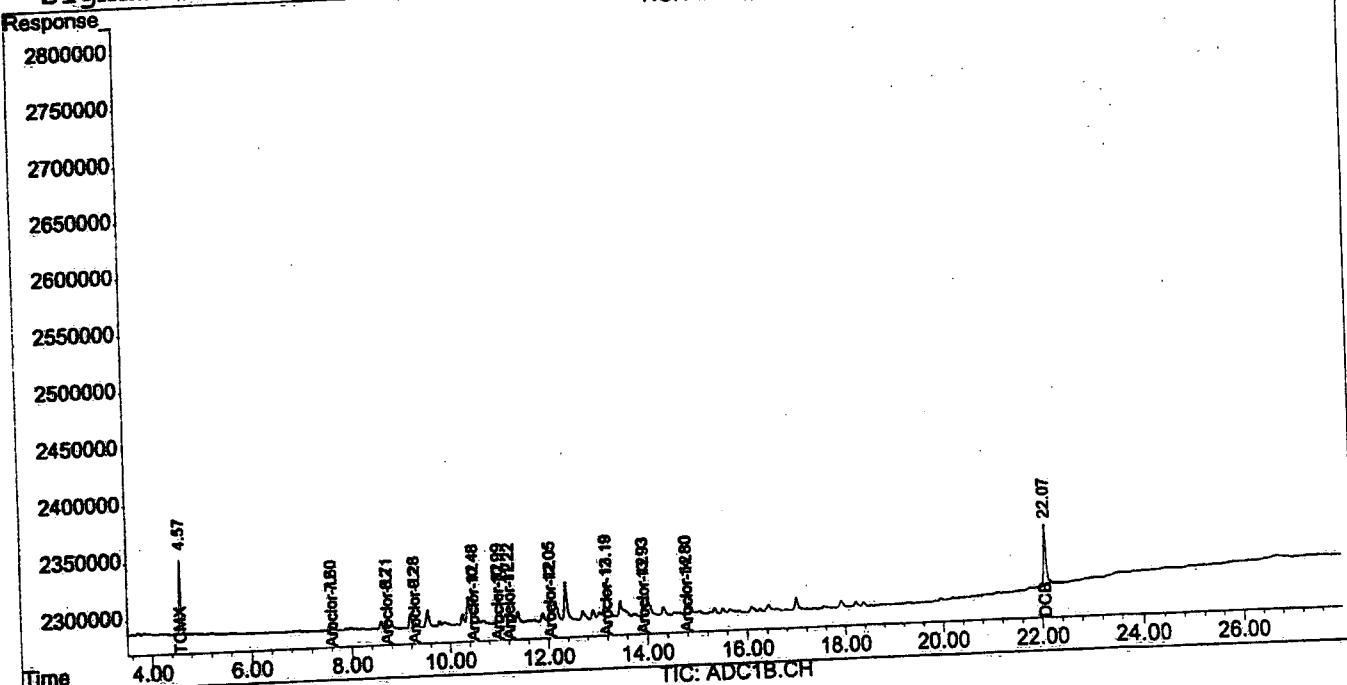
(m)=manual int.

Unguiculatus rugosus

Quantitation Report
Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4470.D\ADC1A.CH Vial: 6
Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4470.D\ADC1B.CH
Acq On : 23 Feb 2001 10:44 Operator:
Sample : SS-16,1071-002,S,30.2g,22.6,02/22/01 Inst : V_3400
Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Feb 23 13:10 2001 Quant Results File: VPCB0220.RES
Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 21 07:17:40 2001
Response via : Multiple Level Calibration
DataAcq Meth : VPCB0220.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :



Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4471.D\ADC1A.CH Vial: 7
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4471.D\ADC1B.CH
 Acq On : 23 Feb 2001 11:15 Operator:
 Sample : SS-6,1071-003,S,30.19,24.6,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 12:09:39 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

1) S TCMX	4.57	5.03	1812426	1922930	2.009	2.417
Spiked Amount	100.000		Recovery	=	2.01%	2.42%
2) S DCB	22.06	23.34	2652462	1700015	3.281	3.138
Spiked Amount	100.000		Recovery	=	3.28%	3.14%

Target Compounds

Sum Aroclor-1016	0	0	N.D.	N.D.
Average Aroclor-1016			0.000	0.000

Sum Aroclor-1221

Average Aroclor-1221	0	0	N.D.	N.D.
			0.000	0.000

Sum Aroclor-1232

Average Aroclor-1232	0	0	N.D.	N.D.
			0.000	0.000

Sum Aroclor-1242

Average Aroclor-1242	0	0	N.D.	N.D.
			0.000	0.000

23) L6 Aroclor-1248	7.60	8.93	923270	525015	70.185	48.649m#
24) L6 Aroclor-1248	{2}	8.70	1423106	2462256	329.579	249.721m
25) L6 Aroclor-1248	{3}	9.27	1106522	3563784	256.605	382.714 #
26) L6 Aroclor-1248	{4}	10.48	4999316	2566993	425.559	265.436 #
27) L6 Aroclor-1248	{5}	10.99	3215958	669058	309.617	146.976 #
Sum Aroclor-1248			11668171	9787106	1391.544	1093.495
Average Aroclor-1248					278.309	218.699

28) L7 Aroclor-1254	11.22	12.69	3443936	2741560	256.758	275.297m
29) L7 Aroclor-1254	{2}	12.04	2910417	1731488	317.807	264.126m
30) L7 Aroclor-1254	{3}	13.19	5031094	6124754	287.272	569.343m#
31) L7 Aroclor-1254	{4}	13.92	6015480	3295451	235.009	275.326
32) L7 Aroclor-1254	{5}	14.79	4508415	5998028	196.276m	340.710 #
Sum Aroclor-1254			21909342	19891281	1293.122	1724.802
Average Aroclor-1254					258.624	344.960

Sum Aroclor-1260	0	0	N.D.	N.D.
Average Aroclor-1260			0.000	0.000

Sum Aroclor-1260	0	0	N.D.	N.D.
Average Aroclor-1260			0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%

(m)=manual int.

Mon Feb 26 08:54:04 2001

V3400

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QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4471.D\ADC1A.CH Vial: 7
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4471.D\ADC1B.CH
 Acq On : 23 Feb 2001 11:15 Operator:
 Sample : SS-6,1071-003,S,30.1g,24.6,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 13:12 2001 Quant Results File: VPCB0220.RES

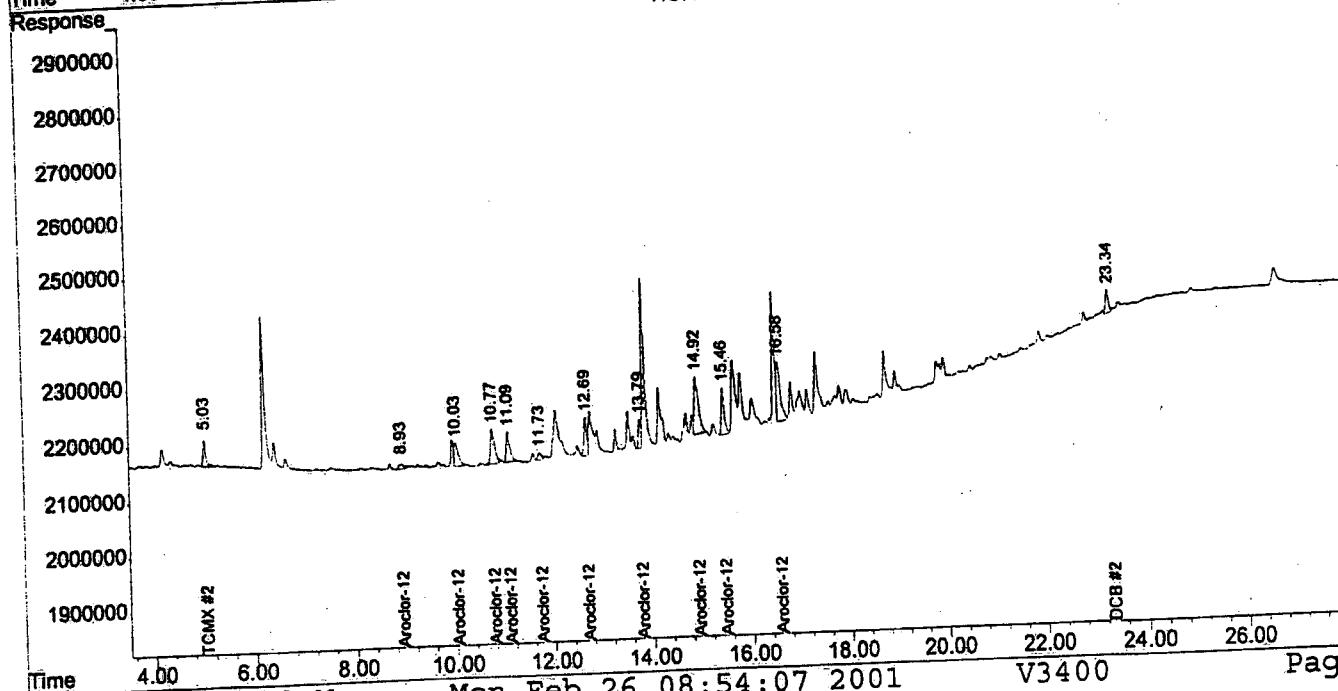
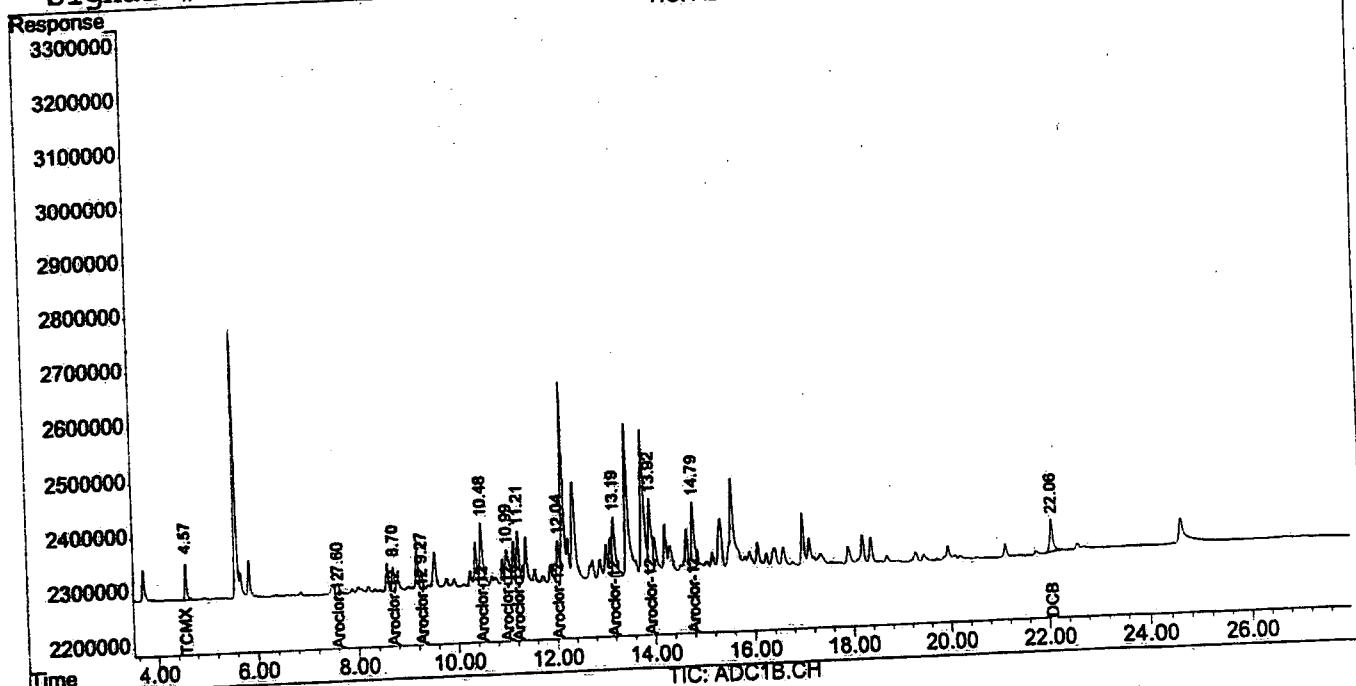
Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :

Signal #2 Phase:
 Signal #2 Info :

TIC: ADC1A.CH



~~Quantification Report~~

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4472.D\ADC1A.CH Vial: 8
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4472.D\ADC1B.CH
 Acq On : 23 Feb 2001 11:45 Operator:
 Sample : SS-15,1071-004,S,30.0g,19.1,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00.
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 12:09:45 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	4.57	5.03	1718900	1597404	1.906	2.008
Spiked Amount	100.000		Recovery	=	1.91%	2.01%
2) S DCB	22.05	23.33	6283186	1613402	7.773	2.979 #
Spiked Amount	100.000		Recovery	=	7.77%	2.98%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	7.50	8.96	2875767	1296512	218.609m	120.137m#
24) L6 Aroclor-1248	{2}	8.70	1268348	3025225	293.738	306.817
25) L6 Aroclor-1248	{3}	9.23	981060	2580984	227.510m	277.171
26) L6 Aroclor-1248	{4}	10.49	5307269	1318735	451.773	136.362 #
27) L6 Aroclor-1248	{5}	11.00	3767116	821666	362.680	180.500 #
Sum Aroclor-1248			14199562	9043122	1554.310	1020.987
Average Aroclor-1248					310.862	204.197
28) L7 Aroclor-1254	11.21	12.68	6801440	6259042	507.072	628.509m
29) L7 Aroclor-1254	{2}	12.04	3727239	2399782	407.001	366.069m
30) L7 Aroclor-1254	{3}	13.18	18743071	37224091	1070.216	3460.266m#
31) L7 Aroclor-1254	{4}	13.92	19503576	10488187	761.955m	876.259
32) L7 Aroclor-1254	{5}	14.79	15677972	13348048	682.547	758.218m
Sum Aroclor-1254			64453298	69719149	3428.791	6089.321
Average Aroclor-1254					685.758	1217.864
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25%
 ----- m Mon Feb 26 08:54:12 2001

(m)=manual int.

V3400

Page 1

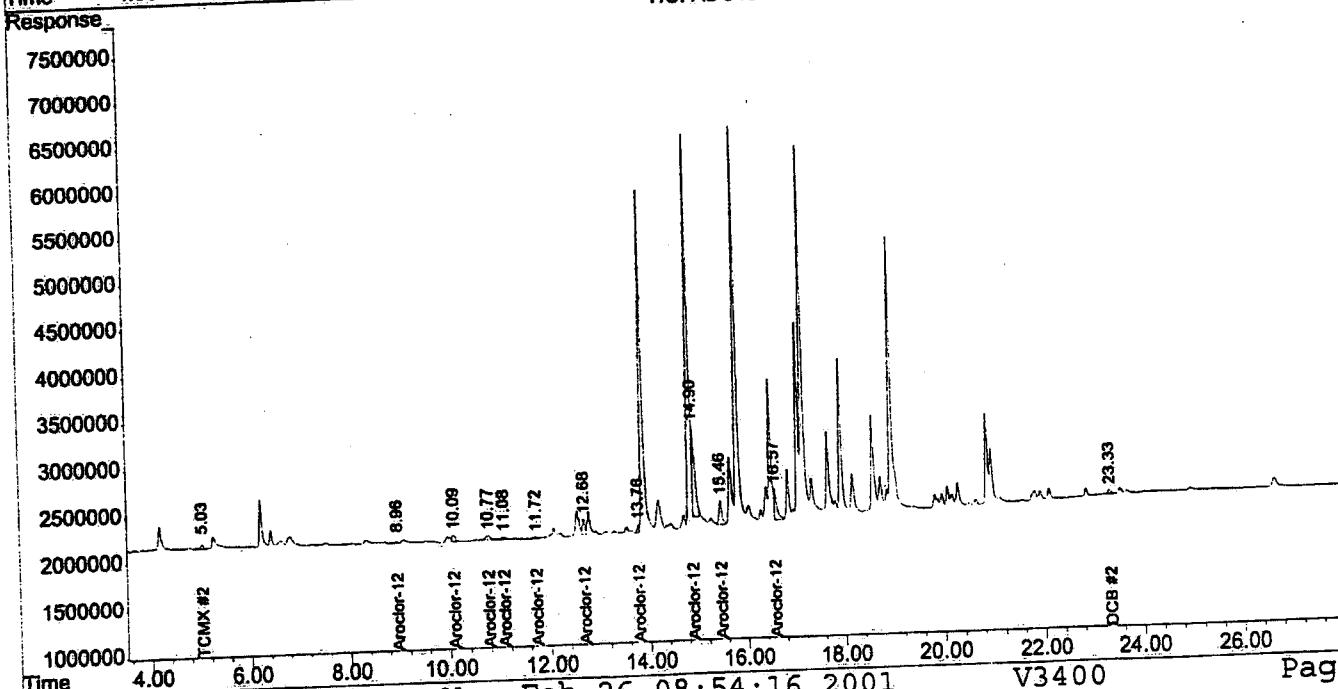
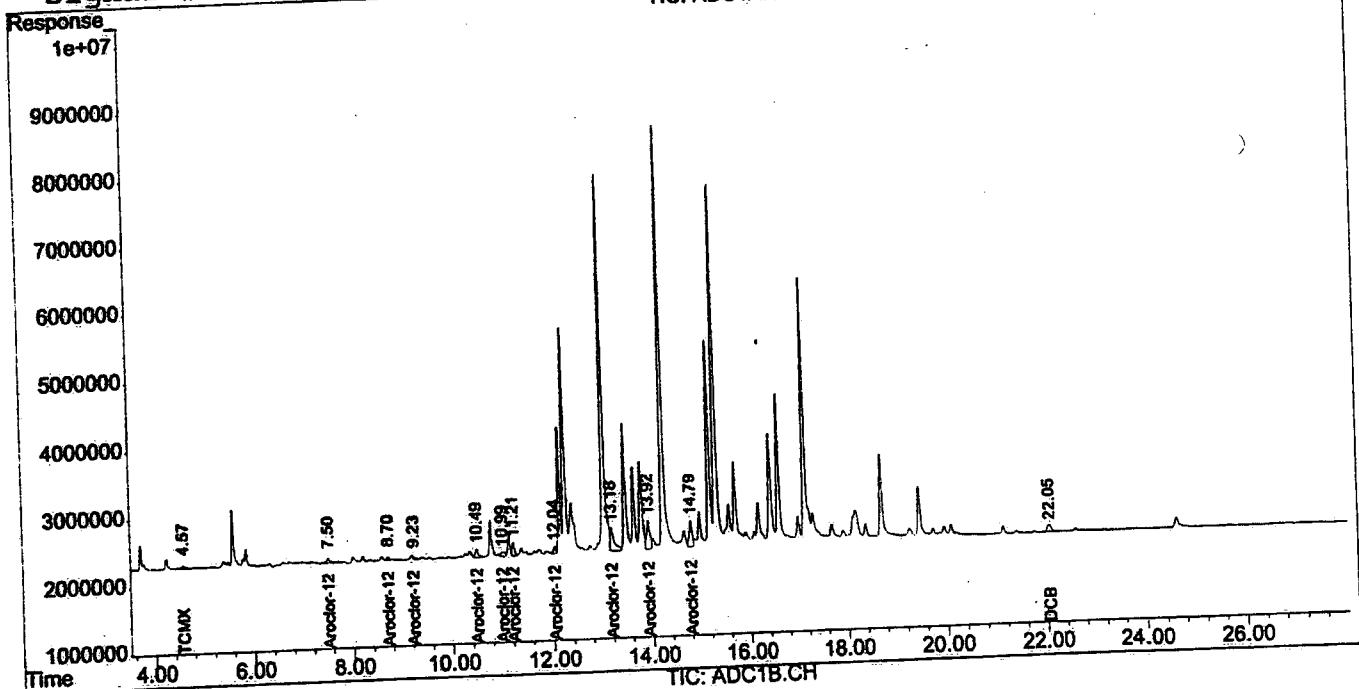
Quantitation Report
Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4472.D\ADC1A.CH Vial: 8
Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4472.D\ADC1B.CH
Acq On : 23 Feb 2001 11:45 Operator:
Sample : SS-15, 1071-004, S, 30.0g, 19.1, 02/22/01 Inst : V_3400
Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Feb 23 13:16 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 21 07:17:40 2001
Response via : Multiple Level Calibration
DataAcq Meth : VPCB0220.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

TIC: ADC1A.CH



QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4473.D\ADC1A.CH Vial: 9
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4473.D\ADC1B.CH
 Acq On : 23 Feb 2001 12:16 Operator:
 Sample : SS-5,1071-005,S,30.7g,20.5,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 13:18:07 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S TCMX	4.57	5.03	2030478	2060271	2.251	2.590
Spiked Amount	100.000		Recovery	=	2.25%	2.59%
2) S DCB	22.06	23.33	4814241	1601404	5.955	2.956 #
Spiked Amount	100.000		Recovery	=	5.96%	2.96%

Target Compounds

Sum Aroclor-1016	0	0	N.D.	N.D.
Average Aroclor-1016			0.000	0.000

Sum Aroclor-1221	0	0	N.D.	N.D.
Average Aroclor-1221			0.000	0.000

Sum Aroclor-1232	0	0	N.D.	N.D.
Average Aroclor-1232			0.000	0.000

Sum Aroclor-1242	0	0	N.D.	N.D.
Average Aroclor-1242			0.000	0.000

23) L6 Aroclor-1248	7.50	8.93	4704583	529917	357.631m	49.103m#
24) L6 Aroclor-1248	{2}	8.70	1878497	2261735	435.043	229.384m#
25) L6 Aroclor-1248	{3}	9.19	1912590	1618005	443.534m	173.757 #
26) L6 Aroclor-1248	{4}	10.49	3274959	1019690	278.776m	105.439 #
27) L6 Aroclor-1248	{5}	11.00	1747971	641000	168.286	140.812m
Sum Aroclor-1248			13518601	6070347	1683.270	698.496
Average Aroclor-1248					336.654	139.699

28) L7 Aroclor-1254	11.22	12.69	4803287	2494798	358.103	250.518m#
29) L7 Aroclor-1254	{2}	12.04	2467819	1184316	269.477	180.659m#
30) L7 Aroclor-1254	{3}	13.19	7232529	9233654	412.972	858.339m#
31) L7 Aroclor-1254	{4}	13.92	15517664	5794234	606.236	484.092
32) L7 Aroclor-1254	{5}	14.79	7841046	8084716	341.363	459.242 #

Sum Aroclor-1254			37862345	26791717	1988.150	2232.850
Average Aroclor-1254					397.630	446.570

Sum Aroclor-1260	0	0	N.D.	N.D.
Average Aroclor-1260			0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 V3400 Page 1

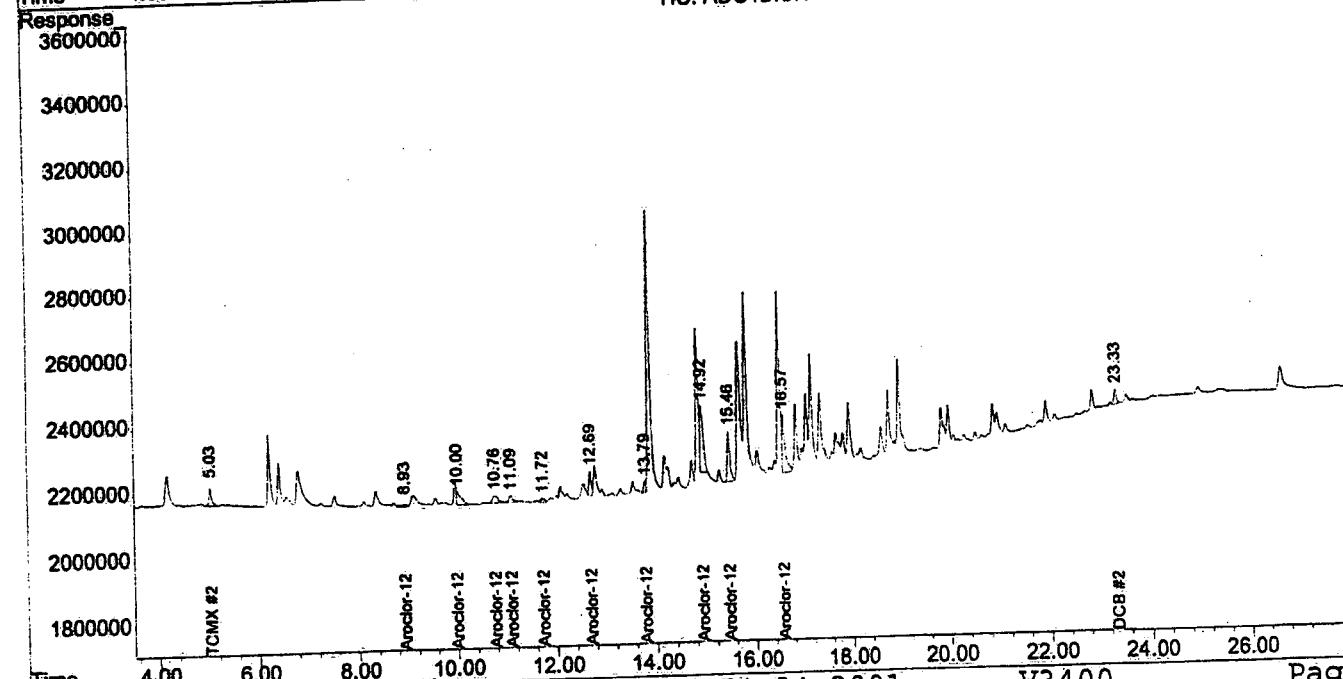
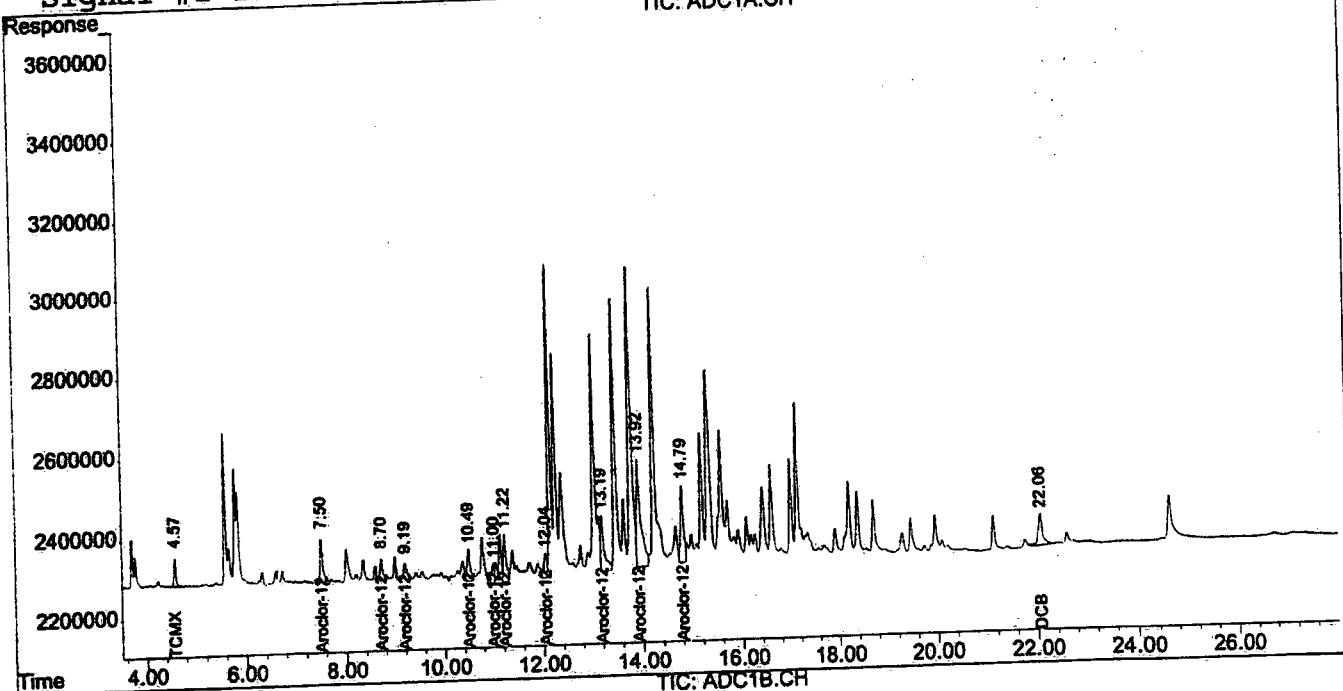
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 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4473.D\ADC1B.CH
 Acq On : 23 Feb 2001 12:16 Operator:
 Sample : SS-5,1071-005,S,30.7g,20.5,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 13:22 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :

Signal #2 Phase:
 Signal #2 Info :

TIC: ADC1A.CH



Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4474.D\ADC1A.CH Vial: 10
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4474.D\ADC1B.CH
 Acq On : 23 Feb 2001 12:47 Operator:
 Sample : SS-14,1071-006,S,30.4g,15.9,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 13:23:16 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds
 1) S TCMX 4.57 5.03 1786931 1635796 1.981 2.056
 Spiked Amount 100.000 Recovery = 1.98% 2.06%
 2) S DCB 22.07 23.34 2758386 1209183 3.412 2.232m#
 Spiked Amount 100.000 Recovery = 3.41% 2.23%

Target Compounds
 Sum Aroclor-1016 0 0 N.D. N.D.
 Average Aroclor-1016 0.000 0.000

Sum Aroclor-1221 0 0 N.D. N.D.
 Average Aroclor-1221 0.000 0.000

Sum Aroclor-1232 0 0 N.D. N.D.
 Average Aroclor-1232 0.000 0.000

Sum Aroclor-1242 0 0 N.D. N.D.
 Average Aroclor-1242 0.000 0.000

23) L6 Aroclor-1248 7.50 8.97 776823 411952 59.052m 38.172m#
 24) L6 Aroclor-1248 {2} 8.71 10.02 439548 1097458 101.796 111.304m
 25) L6 Aroclor-1248 {3} 9.24 10.79 355367 381176 82.410m 40.934m#
 26) L6 Aroclor-1248 {4} 10.49 11.09 1307347 691244 111.286m 71.477m#
 27) L6 Aroclor-1248 {5} 11.00 11.73 705313 380335 67.904m 83.551m
 Sum Aroclor-1248 3584399 2962166 422.448 345.438
 Average Aroclor-1248 84.490 69.088

28) L7 Aroclor-1254 11.22 12.69 2165788 1601597 161.467m 160.826m
 29) L7 Aroclor-1254 {2} 12.04 13.79 1310756 1023840 143.130 156.179m
 30) L7 Aroclor-1254 {3} 13.19 14.93 3158552 3404795 180.351 316.502m#
 31) L7 Aroclor-1254 {4} 13.92 15.46 10026502 4686975 391.710 391.584
 32) L7 Aroclor-1254 {5} 14.79 16.58 6035627 6390728 262.764 363.017 #
 Sum Aroclor-1254 22697226 17107935 1139.422 1388.108
 Average Aroclor-1254 227.884 277.622

Sum Aroclor-1260 0 0 N.D. N.D.
 Average Aroclor-1260 0.000 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

V4474.D VPCB0220.M Mon Feb 26 08:54:29 2001

V3400

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0000053

PCB INITIAL CALIBRATION SUMMARY

Date Analyzed:

02/20/2001Instrument ID:
GC Column (2nd):Varian 3400
DB-1701P

Data File:

V4351.C V4352.C V4353.C V4354.C V4355.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	200	500	1000	2000	4000		
Aroclor-1016	5113	4945	4882	5416	6523	5376	12.54
Aroclor-1016 {2}	10127	9902	10095	10163	10806	10218	3.36
Aroclor-1016 {3}	20439	19909	20093	20698	22381	20704	4.76
Aroclor-1016 {4}	10129	10347	10222	10615	11305	10524	4.50
Aroclor-1016 {5}	8642	8246	8217	8610	9141	8571	4.37
Aroclor-1221			1485				
Aroclor-1221 {2}			2336				
Aroclor-1221 {3}			1514				
Aroclor-1221 {4}			6897				
Aroclor-1221 {5}			488				
Aroclor-1232			4099				
Aroclor-1232 {2}			3312				
Aroclor-1232 {3}			6331				
Aroclor-1232 {4}			2326				
Aroclor-1232 {5}			3321				
Aroclor-1242			3366				
Aroclor-1242 {2}			4428				
Aroclor-1242 {3}			5353				
Aroclor-1242 {4}			2060				
Aroclor-1242 {5}			2025				
Aroclor-1248			10792				
Aroclor-1248 {2}			9860				
Aroclor-1248 {3}			9312				
Aroclor-1248 {4}			9671				
Aroclor-1248 {5}			4552				
Aroclor-1254			10213				
Aroclor-1254 {2}			6632				
Aroclor-1254 {3}			10758				
Aroclor-1254 {4}			11969				
Aroclor-1254 {5}			17604				
Aroclor-1260	28971	29927	29502	27150	30992	29308	4.83
Aroclor-1260 {2}	31606	31505	31425	28935	32896	31273	4.60
Aroclor-1260 {3}	14209	15545	15596	14398	16429	15235	6.06
Aroclor-1260 {4}	27765	30805	32747	30146	36123	31517	9.93
Aroclor-1260 {5}	2902	2737	2763	2512	2899	2763	5.77
Average %RSD							6.07

000031

PCB CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 02/22/2001

Instrument ID:

Varian 3400

Data File:

V4434.D

GC Column (1st):

DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	5.37	5.30	5.44	6527	6245	4.31
Aroclor-1016 {2}	6.43	6.36	6.50	5048	5336	5.71
Aroclor-1016 {3}	6.86	6.79	6.93	8618	9013	4.58
Aroclor-1016 {4}	8.71	8.64	8.78	4289	4558	6.26
Aroclor-1016 {5}	9.18	9.11	9.25	5932	6199	4.50
Aroclor-1260	14.80	14.73	14.87	36765	38598	4.99
Aroclor-1260 {2}	15.35	15.28	15.42	26062	27067	3.86
Aroclor-1260 {3}	17.00	16.93	17.07	44729	47297	5.74
Aroclor-1260 {4}	17.92	17.85	17.99	18119	19553	7.91
Aroclor-1260 {5}	19.96	19.89	20.03	6693	7489	11.90
Average %D						5.98

Data File:

V4434.C

GC Column (2nd):

DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	6.48	6.41	6.55	5376	5715	6.30
Aroclor-1016 {2}	7.56	7.49	7.63	10218	11562	13.15
Aroclor-1016 {3}	8.92	8.85	8.99	20704	23472	13.37
Aroclor-1016 {4}	9.34	9.27	9.41	10524	12037	14.38
Aroclor-1016 {5}	9.69	9.62	9.76	8571	9635	12.41
Aroclor-1260	15.47	15.40	15.54	29308	32365	10.43
Aroclor-1260 {2}	16.59	16.52	16.66	31273	34389	9.96
Aroclor-1260 {3}	17.83	17.76	17.90	15235	16881	10.80
Aroclor-1260 {4}	18.77	18.70	18.84	31517	35542	12.77
Aroclor-1260 {5}	21.14	21.07	21.21	2763	2850	3.16
Average %D						10.67

000032

PCB CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 02/22/2001

Instrument ID: Varian 3400

Data File: V4452.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	5.37	5.30	5.44	6527	5975	8.46
Aroclor-1016 {2}	6.43	6.36	6.50	5048	5052	0.09
Aroclor-1016 {3}	6.86	6.79	6.93	8618	8535	0.95
Aroclor-1016 {4}	8.71	8.64	8.78	4289	4382	2.16
Aroclor-1016 {5}	9.18	9.11	9.25	5932	6488	9.37
Aroclor-1260	14.79	14.72	14.86	36765	34454	6.28
Aroclor-1260 {2}	15.35	15.28	15.42	26062	23851	8.49
Aroclor-1260 {3}	17.00	16.93	17.07	44729	41514	7.19
Aroclor-1260 {4}	17.92	17.85	17.99	18119	17235	4.88
Aroclor-1260 {5}	19.96	19.89	20.03	6693	6553	2.09
Average %D						5.00

Data File: V4452.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	6.48	6.41	6.55	5376	5190	3.45
Aroclor-1016 {2}	7.56	7.49	7.63	10218	10997	7.62
Aroclor-1016 {3}	8.92	8.85	8.99	20704	21998	6.25
Aroclor-1016 {4}	9.35	9.28	9.42	10524	11210	6.53
Aroclor-1016 {5}	9.69	9.62	9.76	8571	8944	4.35
Aroclor-1260	15.47	15.40	15.54	29308	28451	2.93
Aroclor-1260 {2}	16.59	16.52	16.66	31273	31053	0.70
Aroclor-1260 {3}	17.84	17.77	17.91	15235	14582	4.29
Aroclor-1260 {4}	18.77	18.70	18.84	31517	31382	0.43
Aroclor-1260 {5}	21.14	21.07	21.21	2763	2721	1.49
Average %D						3.80

000033

PCB CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 02/23/2001

Instrument ID:

Varian 3400

Data File:

V4466.D

GC Column (1st):

DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	5.37	5.30	5.44	6527	6847	4.90
Aroclor-1016 {2}	6.43	6.36	6.50	5048	5088	0.80
Aroclor-1016 {3}	6.86	6.79	6.93	8618	8646	0.33
Aroclor-1016 {4}	8.71	8.64	8.78	4289	4124	3.86
Aroclor-1016 {5}	9.18	9.11	9.25	5932	5906	0.44
Aroclor-1260	14.79	14.72	14.86	36765	35612	3.13
Aroclor-1260 {2}	15.35	15.28	15.42	26062	24610	5.57
Aroclor-1260 {3}	16.99	16.92	17.06	44729	44649	0.18
Aroclor-1260 {4}	17.92	17.85	17.99	18119	18796	3.73
Aroclor-1260 {5}	19.96	19.89	20.03	6693	7072	5.67
Average %D						2.86

Data File:

V4466.C

GC Column (2nd):

DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	6.47	6.40	6.54	5376	5362	0.25
Aroclor-1016 {2}	7.56	7.49	7.63	10218	10506	2.81
Aroclor-1016 {3}	8.92	8.85	8.99	20704	21615	4.40
Aroclor-1016 {4}	9.34	9.27	9.41	10524	10857	3.17
Aroclor-1016 {5}	9.68	9.61	9.75	8571	8521	0.58
Aroclor-1260	15.47	15.40	15.54	29308	28407	3.08
Aroclor-1260 {2}	16.59	16.52	16.66	31273	30502	2.47
Aroclor-1260 {3}	17.83	17.76	17.90	15235	14978	1.69
Aroclor-1260 {4}	18.76	18.69	18.83	31517	32897	4.38
Aroclor-1260 {5}	21.13	21.06	21.20	2763	2851	3.19
Average %D						2.60

PCB CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 02/23/2001 Instrument ID: Varian 3400

Data File: V4484.D GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	5.39	5.32	5.46	6527	6495	0.50
Aroclor-1016 {2}	6.44	6.37	6.51	5048	4933	2.27
Aroclor-1016 {3}	6.88	6.81	6.95	8618	8356	3.04
Aroclor-1016 {4}	8.72	8.65	8.79	4289	4266	0.53
Aroclor-1016 {5}	9.19	9.12	9.26	5932	6197	4.48
Aroclor-1260	14.81	14.74	14.88	36765	36582	0.50
Aroclor-1260 {2}	15.37	15.30	15.44	26062	24886	4.51
Aroclor-1260 {3}	17.01	16.94	17.08	44729	44481	0.56
Aroclor-1260 {4}	17.93	17.86	18.00	18119	18394	1.52
Aroclor-1260 {5}	19.98	19.91	20.05	6693	6480	3.18
Average %D						2.11

Data File: V4484.C GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	6.49	6.42	6.56	5376	5487	2.06
Aroclor-1016 {2}	7.58	7.51	7.65	10218	10715	4.86
Aroclor-1016 {3}	8.94	8.87	9.01	20704	21249	2.63
Aroclor-1016 {4}	9.37	9.30	9.44	10524	10907	3.64
Aroclor-1016 {5}	9.71	9.64	9.78	8571	8663	1.07
Aroclor-1260	15.50	15.43	15.57	29308	29843	1.82
Aroclor-1260 {2}	16.61	16.54	16.68	31273	32786	4.84
Aroclor-1260 {3}	17.86	17.79	17.93	15235	15482	1.62
Aroclor-1260 {4}	18.79	18.72	18.86	31517	33733	7.03
Aroclor-1260 {5}	21.16	21.09	21.23	2763	2939	6.39
Average %D						3.60

000035

PCB CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 02/23/2001 Instrument ID: Varian 3400

Data File: V4495.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	5.39	5.32	5.46	6527	5882	9.89
Aroclor-1016 {2}	6.45	6.38	6.52	5048	4974	1.46
Aroclor-1016 {3}	6.88	6.81	6.95	8618	8854	2.74
Aroclor-1016 {4}	8.73	8.66	8.80	4289	4763	11.04
Aroclor-1016 {5}	9.20	9.13	9.27	5932	6988	17.81
Aroclor-1260	14.82	14.75	14.89	36765	36609	0.42
Aroclor-1260 {2}	15.38	15.31	15.45	26062	28777	10.42
Aroclor-1260 {3}	17.02	16.95	17.09	44729	51581	15.32
Aroclor-1260 {4}	17.95	17.88	18.02	18119	22172	22.37
Aroclor-1260 {5}	19.99	19.92	20.06	6693	6944	3.75
Average %D						9.52

Data File: V4495.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	6.49	6.42	6.56	5376	5317	1.10
Aroclor-1016 {2}	7.59	7.52	7.66	10218	11450	12.05
Aroclor-1016 {3}	8.94	8.87	9.01	20704	24012	15.98
Aroclor-1016 {4}	9.37	9.30	9.44	10524	11713	11.30
Aroclor-1016 {5}	9.68	9.61	9.75	8571	8605	0.39
Aroclor-1260	15.50	15.43	15.57	29308	32429	10.65
Aroclor-1260 {2}	16.62	16.55	16.69	31273	37449	19.75
Aroclor-1260 {3}	17.87	17.80	17.94	15235	17440	14.47
Aroclor-1260 {4}	18.80	18.73	18.87	31517	38906	23.44
Aroclor-1260 {5}	21.17	21.10	21.24	2763	3272	18.42
Average %D						12.76

000036

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 02/22/2001

Client ID	Lab Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
(1061..1071)	0222-BLK1	SOIL	87		78		100		85	
SS-2	1071-011	SOIL	D		D		D		D	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

59 - 147

63 - 179

Aqueous

59 - 151

60 - 150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

000037

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 02/22/2001

Client ID	Lab Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
SS-7	1071-001	SOIL	D		D		D		D	
SS-16	1071-002	SOIL	95		125		105		430	*
SS-6	1071-003	SOIL	100		165		120		155	
SS-15	1071-004	SOIL	95		390	*	100		150	
SS-5	1071-005	SOIL	115		300	*	130		150	
SS-14	1071-006	SOIL	100		170		105		110	
SS-4	1071-007	SOIL	120		295	*	145		150	
SS-13	1071-008	SOIL	120		2905	*	130		615	*
SS-3	1071-009	SOIL	120		1285	*	135		210	*
SS-12	1071-010	SOIL	125		1180	*	135		175	
SS-11	1071-012	SOIL	90		160		90		105	
SS-1	1071-013	SOIL	95		85		105		100	
SS-10	1071-014	SOIL	95		120		100		135	
SS-17	1071-015	SOIL	D		D		D		D	
SS-8	1071-016	SOIL	100		160		110		130	
SS-18	1071-017	SOIL	95		240	*	110		135	
SS-9	1071-018	SOIL	100		255	*	105		170	
PCB	1074-001-MS1	SOIL	86		90		96		95	
PCB	1074-001-MSD	SOIL	94		96		103		106	
PCB	PBS0221-MS1	SOIL	88		81		99		89	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil

59 - 147

63 - 179

Aqueous

59 - 151

60 - 150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

000038

SOIL PCB MATRIX SPIKE/SPIKE DUPLICATE RECOVERY

Matrix spike Lab sample ID: 1074-001-MSD1

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	10.0	0.0	8.4	84	77 - 168
Aroclor-1260	10.0	0.0	9.9	99	81 - 177

Compound	SAMPLE CONC. ADDED	MSD CONC. ADDED	MSD % REC #	% RPD #	RPD	QC LIMITS REC.
Aroclor-1016	0.0	9.8	98	15	18	77 - 168
Aroclor-1260	0.0	11.6	116	16	19	81 - 177

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

000039

SOIL PCB BLANK SPIKE RECOVERY

Matrix spike Lab sample ID: PBS0221-MS1

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	10.0	0.0	8.8	88	77 - 168
Aroclor-1260	10.0	0.0	9.9	99	81 - 177

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

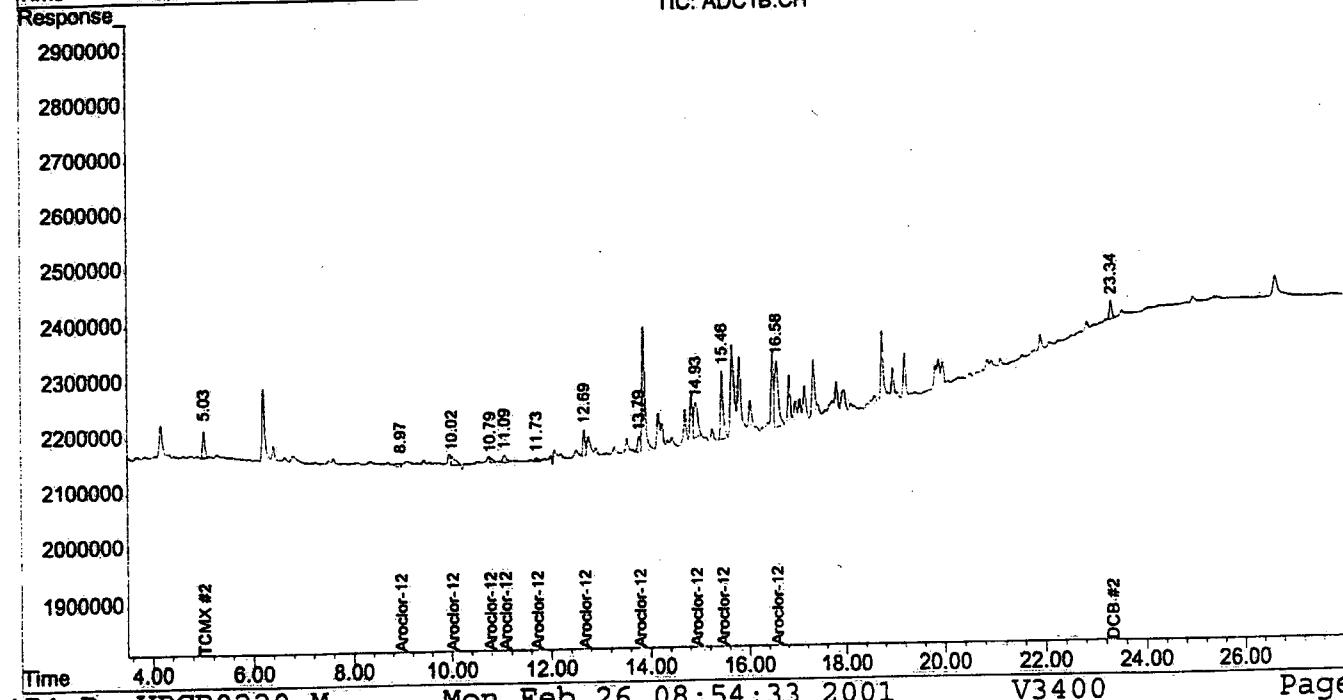
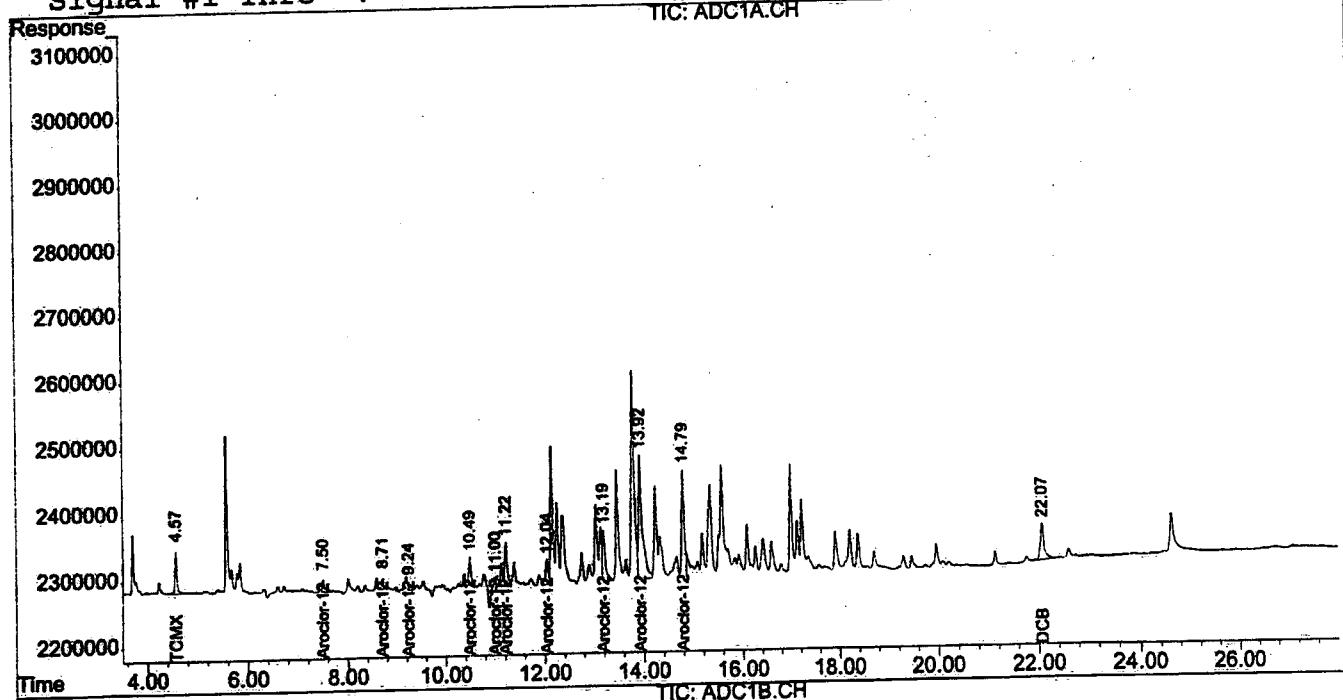
Spike Recovery: 0 out of 2 outside limits

000040

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4474.D\ADC1A.CH Vial: 10
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4474.D\ADC1B.CH
 Acq On : 23 Feb 2001 12:47 Operator:
 Sample : SS-14, 1071-006, S, 30.4g, 15.9, 02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 13:27 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4475.D\ADC1A.CH Vial: 11
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4475.D\ADC1B.CH
 Acq On : 23 Feb 2001 13:18 Operator:
 Sample : SS-4,1071-007,S,30.5g,18.7,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 06:59:28 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds
 1) S TCMX 4.57 5.04 2155542 2270530 2.390 2.854
 Spiked Amount 100.000 Recovery = 2.39% 2.85%
 2) S DCB 22.08 23.35 4800236 1630625 5.938 3.010m#
 Spiked Amount 100.000 Recovery = 5.94% 3.01%

Target Compounds
 Sum Aroclor-1016 0 0 N.D. N.D.
 Average Aroclor-1016 0.000 0.000

Sum Aroclor-1221 0 0 N.D. N.D.
 Average Aroclor-1221 0.000 0.000

Sum Aroclor-1232 0 0 N.D. N.D.
 Average Aroclor-1232 0.000 0.000

Sum Aroclor-1242 0 0 N.D. N.D.
 Average Aroclor-1242 0.000 0.000

23) L6 Aroclor-1248 7.61 8.93 645330 641145 49.057m 59.410m
 24) L6 Aroclor-1248 {2} 8.71 10.02 1905259 2606347 441.241m 264.334m#
 25) L6 Aroclor-1248 {3} 9.26 10.78 464656 2842432 107.755m 305.248m#
 26) L6 Aroclor-1248 {4} 10.50 11.10 5605298 983124 477.142m 101.658m#
 27) L6 Aroclor-1248 {5} 11.05 11.74 2615534 551875 251.811m 121.234m#
 Sum Aroclor-1248 11236077 7624924 1327.005 851.884
 Average Aroclor-1248 265.401 170.377

28) L7 Aroclor-1254 11.23 12.70 9128993 7401527 680.600 743.233
 29) L7 Aroclor-1254 {2} 12.05 13.80 5242234 3254874 572.432 496.507
 30) L7 Aroclor-1254 {3} 13.20 14.97 14351277 13334733 819.448 1239.566 #
 31) L7 Aroclor-1254 {4} 13.94 15.48 31659789 13250751 1236.867m 1107.063
 32) L7 Aroclor-1254 {5} 14.81 16.60 18623656 19911368 810.789 1131.039 #
 Sum Aroclor-1254 79005948 57153252 4120.136 4717.409
 Average Aroclor-1254 824.027 943.482

Sum Aroclor-1260 0 0 N.D. N.D.
 Average Aroclor-1260 0.000 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Mon Feb 26 08:54:38 2001

V3400

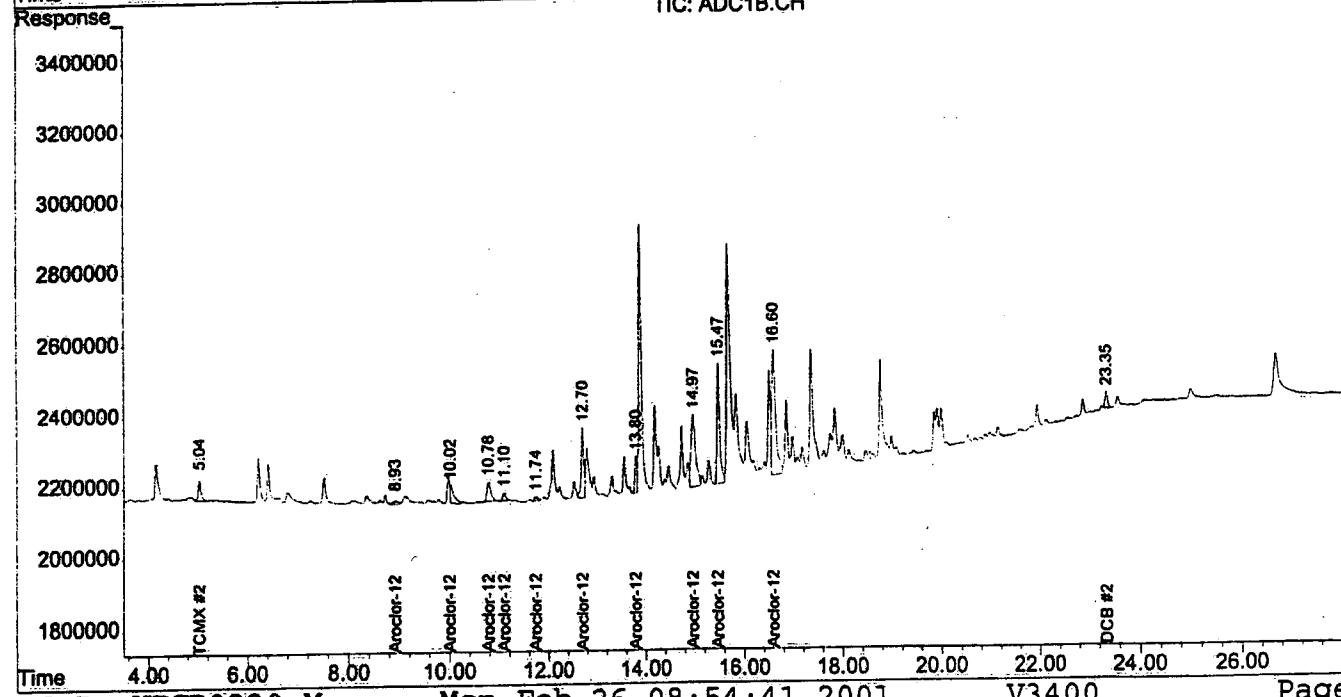
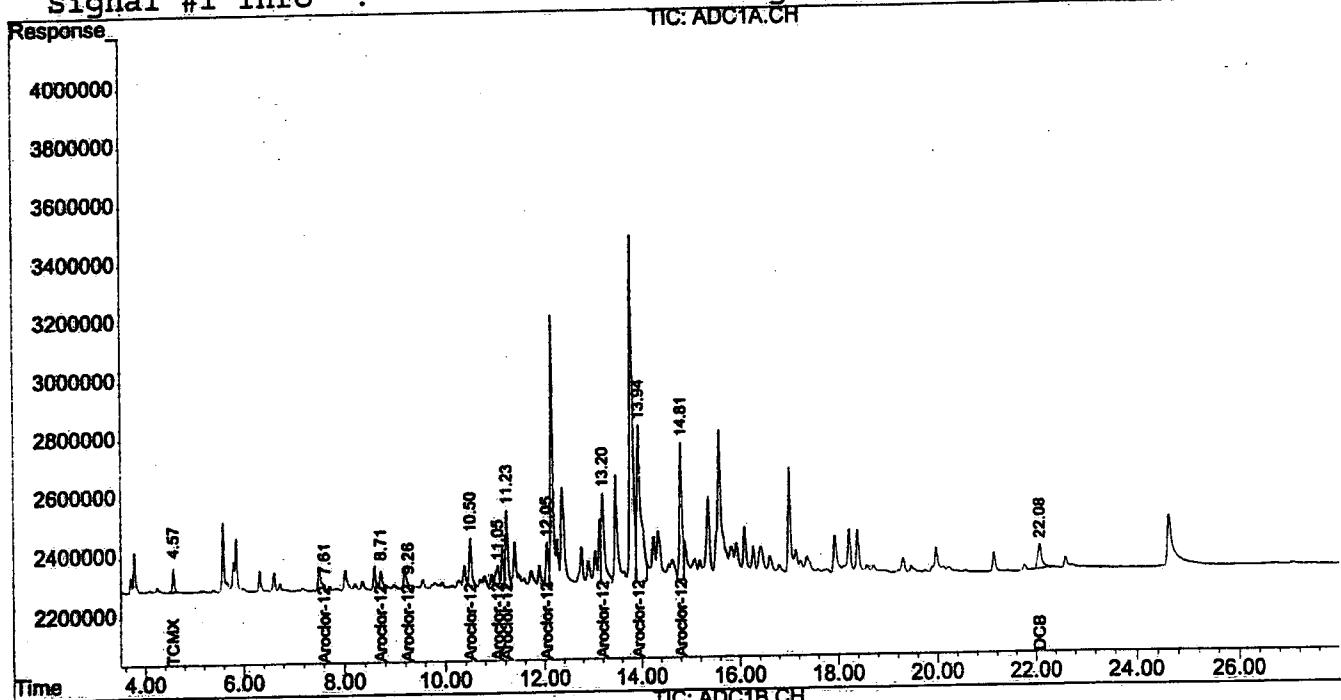
ORPAGES 5

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4475.D\ADC1A.CH Vial: 11
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4475.D\ADC1B.CH
 Acq On : 23 Feb 2001 13:18 Operator:
 Sample : SS-4, 1071-007, S, 30.5g, 18.7, 02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 7:45 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :

Signal #2 Phase:
 Signal #2 Info :



Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4476.D\ADC1A.CH Vial: 12
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4476.D\ADC1B.CH
 Acq On : 23 Feb 2001 13:49 Operator:
 Sample : SS-13,1071-008,S,30.4g,21.8,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 06:59:34 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds
 1) S TCMX 4.57 5.03 2197415 2064120 2.436m 2.595m
 Spiked Amount 100.000 Recovery = 2.44% 2.60%
 2) S DCB 22.05 23.36 46978789 6688499 58.116 12.348 #
 Spiked Amount 100.000 Recovery = 58.12% 12.35%

Target Compounds
 Sum Aroclor-1016 0 0 N.D. N.D.
 Average Aroclor-1016 0.000 0.000

Sum Aroclor-1221 0 0 N.D. N.D.
 Average Aroclor-1221 0.000 0.000

Sum Aroclor-1232 0 0 N.D. N.D.
 Average Aroclor-1232 0.000 0.000

Sum Aroclor-1242 0 0 N.D. N.D.
 Average Aroclor-1242 0.000 0.000

23) L6 Aroclor-1248 7.61 8.93 2578017 3987558 195.975m 369.494m#
 24) L6 Aroclor-1248 {2} 8.71 9.98 4752112 18595433 1100.547m 1885.940m#
 25) L6 Aroclor-1248 {3} 9.29 10.79 1251047 5844086 290.120m 627.595m#
 26) L6 Aroclor-1248 {4} 10.50 11.10 9004764 2539268 766.516m 262.569m#
 27) L6 Aroclor-1248 {5} 11.05 11.74 5692020 1227698 548.000m 269.696m#
 Sum Aroclor-1248 23277960 32194042 2901.158 3415.294
 Average Aroclor-1248 580.232 683.059

28) L7 Aroclor-1254 11.23 12.71 13151028 10530667 980.457 1057.449
 29) L7 Aroclor-1254 {2} 12.05 13.83 4332984 3600352 473.146 549.208m
 30) L7 Aroclor-1254 {3} 13.20 14.94 23226595 29664931 1326.223 2757.584m#
 31) L7 Aroclor-1254 {4} 13.93 15.48 63381103 20988536 2476.138m 1753.534 #
 32) L7 Aroclor-1254 {5} 14.80 16.59 32251385 29153851 1404.078 1656.046m
 Sum Aroclor-1254 136.3E6 93938337 6660.041 7773.820
 Average Aroclor-1254 1332.008 1554.764

Sum Aroclor-1260 0 0 N.D. N.D.
 Average Aroclor-1260 0.000 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Mon Feb 26 08:54:46 2001

V3400

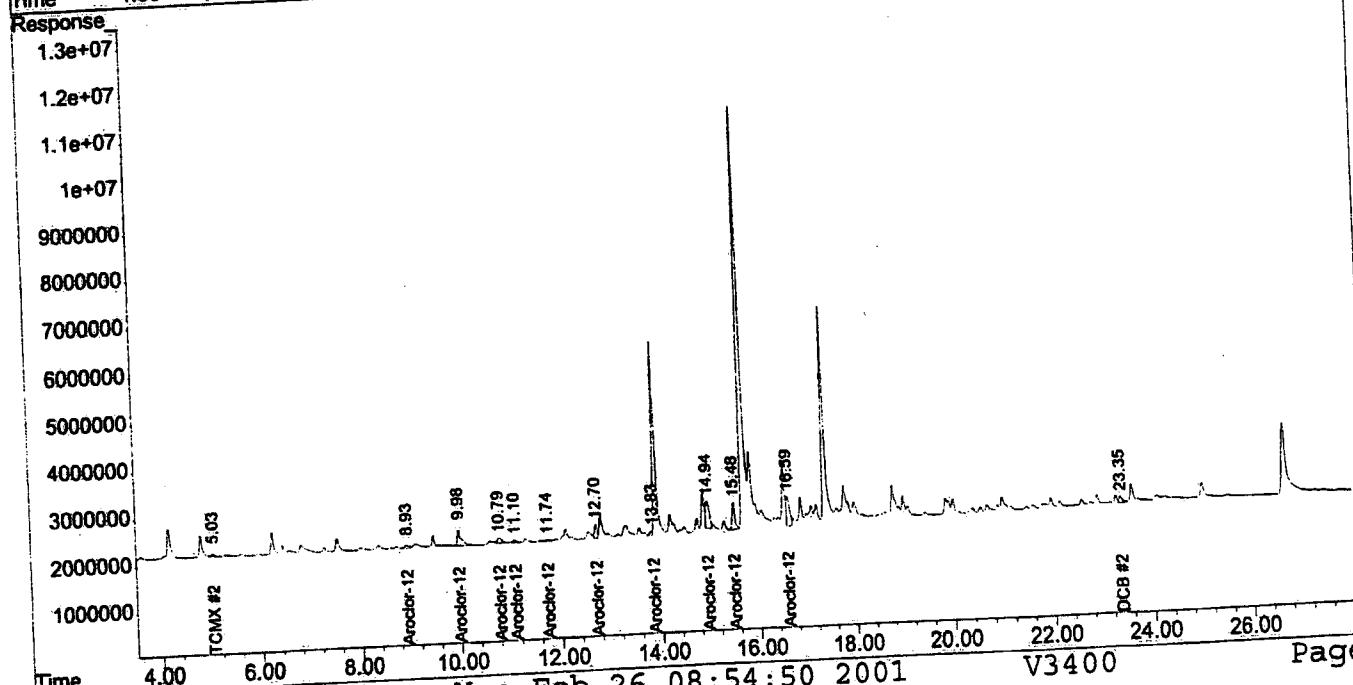
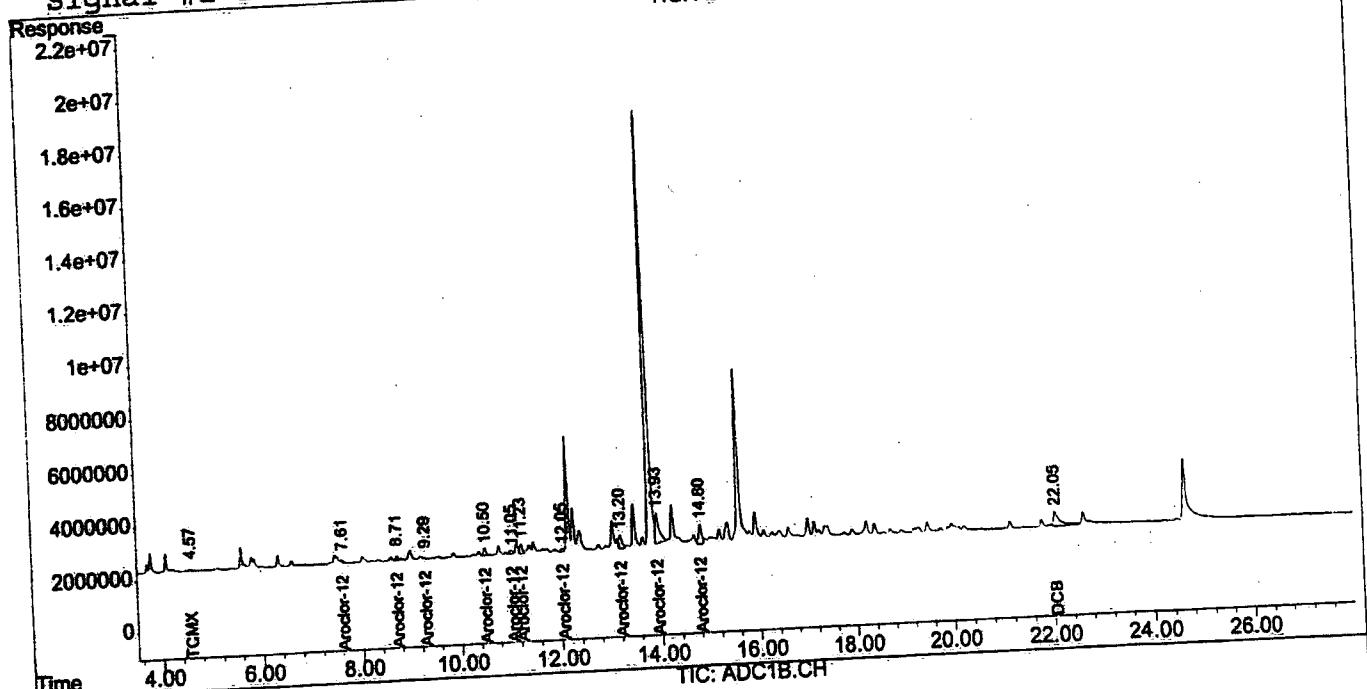
Page 1

Quantitation ----
 Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4476.D\ADC1A.CH Vial: 12
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4476.D\ADC1B.CH
 Acq On : 23 Feb 2001 13:49 Operator:
 Sample : SS-13,1071-008,S,30.4g,21.8,02/22/01 Inst : v_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 7:46 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info : TIC: ADC1A.CH



Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4477.D\ADC1A.CH Vial: 13
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4477.D\ADC1B.CH
 Acq On : 23 Feb 2001 14:20 Operator:
 Sample : SS-3,1071-009,S,30.3g,23.5,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 06:59:40 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	4.57	5.03	2165203	2151134	2.401	2.704
Spiked Amount	100.000		Recovery	=	2.40%	2.70%
2) S DCB	22.04	23.36	20755155	2266316	25.675	4.184 #
Spiked Amount	100.000		Recovery	=	25.68%	4.18%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	7.59	8.92	976980	945878	74.268m	87.647
24) L6 Aroclor-1248	{2}	8.71	1934700	3248110	448.059m	329.422m#
25) L6 Aroclor-1248	{3}	9.28	292120	2425732	67.743m	260.499m#
26) L6 Aroclor-1248	{4}	10.50	2155977	615736	183.524m	63.669 #
27) L6 Aroclor-1248	{5}	11.01	2435096	453118	234.439	99.539m#
Sum Aroclor-1248			7794873	7688573	1008.033	840.775
Average Aroclor-1248					201.607	168.155
28) L7 Aroclor-1254	11.23	12.71	3498787	2964251	260.847	297.659
29) L7 Aroclor-1254	{2}	12.05	729783	842018	79.690	128.444m#
30) L7 Aroclor-1254	{3}	13.20	6231289	13480745	355.802	1253.139m#
31) L7 Aroclor-1254	{4}	13.93	28158118	5879146	1100.066	491.186 #
32) L7 Aroclor-1254	{5}	14.80	10108399	33824926	440.073	1921.380m#
Sum Aroclor-1254			48726376	56991086	2236.479	4091.808
Average Aroclor-1254					447.296	818.362
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

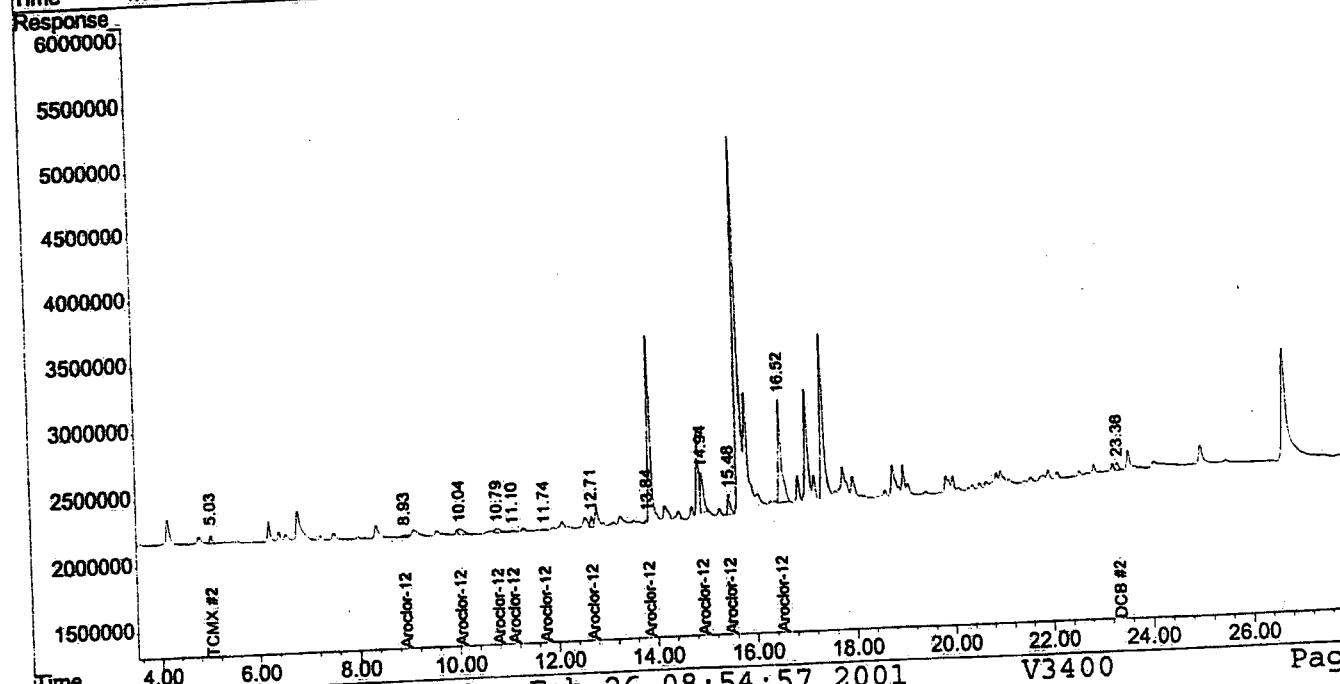
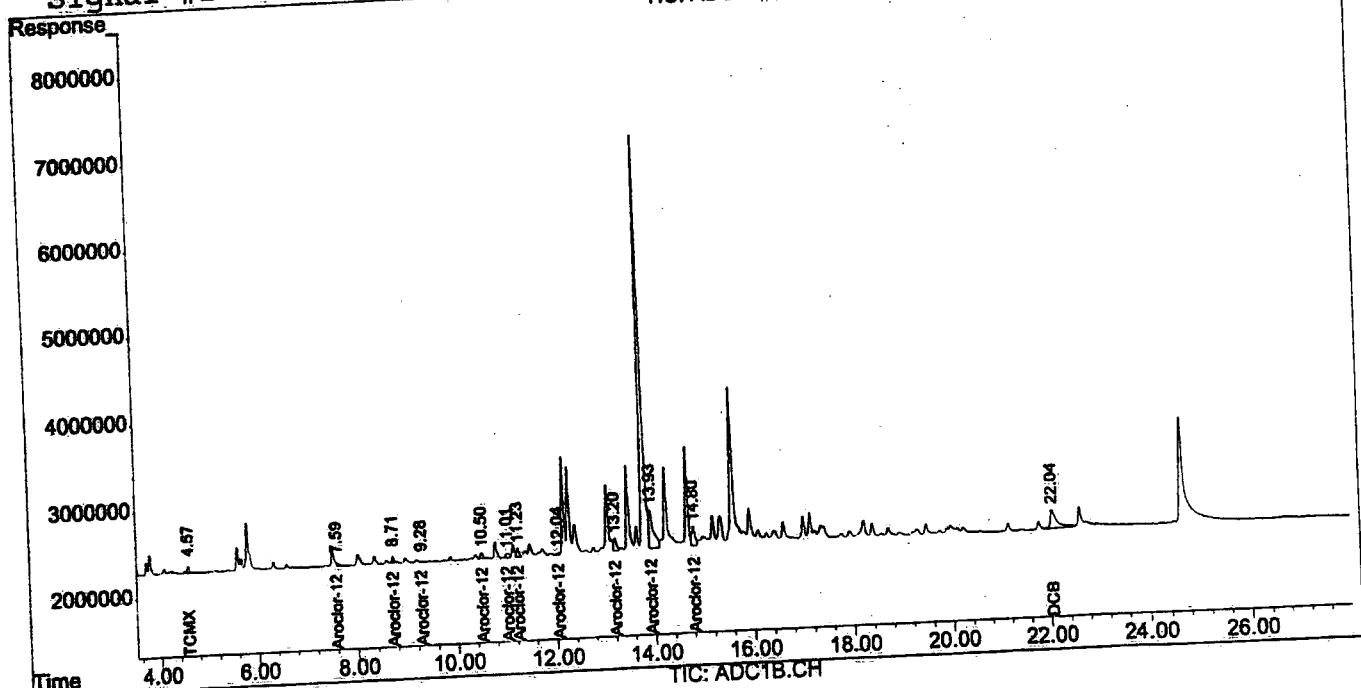
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 Mon Feb 26 08:54:54 2001 V3400
 n0005

Quantification Report
Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4477.D\ADC1A.CH Vial: 13
Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4477.D\ADC1B.CH
Acq On : 23 Feb 2001 14:20 Operator:
Sample : SS-3, 1071-009, S, 30.3g, 23.5, 02/22/01 Inst : V_3400
Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Feb 26 7:43 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
Last Update : Wed Feb 21 07:17:40 2001
Response via : Multiple Level Calibration
DataAcq Meth : VPCB0220.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :
TIC: ADC1A.CH



QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4478.D\ADC1A.CH Vial: 14
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4478.D\ADC1B.CH
 Acq On : 23 Feb 2001 14:51 Operator:
 Sample : SS-12,1071-010,S,30.2g,21.1,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 06:59:45 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S TCMX	4.57	5.04	2254819	2152417	2.500m	2.706m
Spiked Amount	100.000		Recovery	=	2.50%	2.71%
2) S DCB	22.05	23.36	19113123	1881680	23.644	3.474m#
Spiked Amount	100.000		Recovery	=	23.64%	3.47%

Target Compounds

Sum Aroclor-1016	0	0	N.D.	N.D.
Average Aroclor-1016			0.000	0.000

Sum Aroclor-1221	0	0	N.D.	N.D.
Average Aroclor-1221			0.000	0.000

Sum Aroclor-1232	0	0	N.D.	N.D.
Average Aroclor-1232			0.000	0.000

Sum Aroclor-1242	0	0	N.D.	N.D.
Average Aroclor-1242			0.000	0.000

23) L6 Aroclor-1248	7.61	8.94	776210	709842	59.006	65.775m
24) L6 Aroclor-1248	{2}	8.72	2766501	4266897	640.697	432.747 #
25) L6 Aroclor-1248	{3}	9.28	1412017	6134673	327.450	658.801m#
26) L6 Aroclor-1248	{4}	10.50	5885262	3689206	500.973	381.476
27) L6 Aroclor-1248	{5}	11.00	2105426	766428	202.700	168.366
Sum Aroclor-1248			12945416	15567045	1730.826	1707.165
Average Aroclor-1248					346.165	341.433

28) L7 Aroclor-1254	11.23	12.72	5843144	4893650	435.628	491.401
29) L7 Aroclor-1254	{2}	12.05	3756381	2425442	410.183	369.984
30) L7 Aroclor-1254	{3}	13.20	8416401	14574649	480.571	1354.826 #
31) L7 Aroclor-1254	{4}	13.94	33069479	7149530	1291.940	597.323 #
32) L7 Aroclor-1254	{5}	14.80	11833275	15409559	515.167	875.320 #
Sum Aroclor-1254			62918680	44452831	3133.488	3688.854
Average Aroclor-1254					626.698	737.771

Sum Aroclor-1260	0	0	N.D.	N.D.
Average Aroclor-1260			0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

VPCB0220.M Mon Feb 26 08:55:02 2001

V3400

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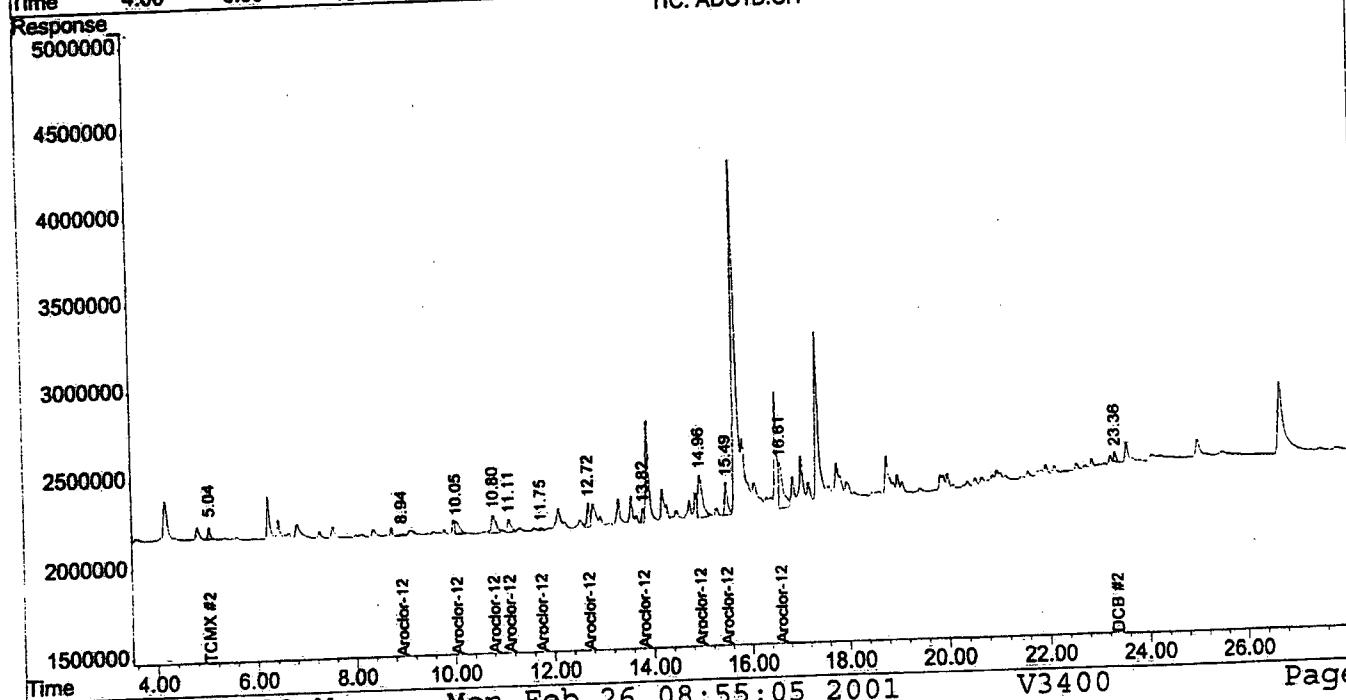
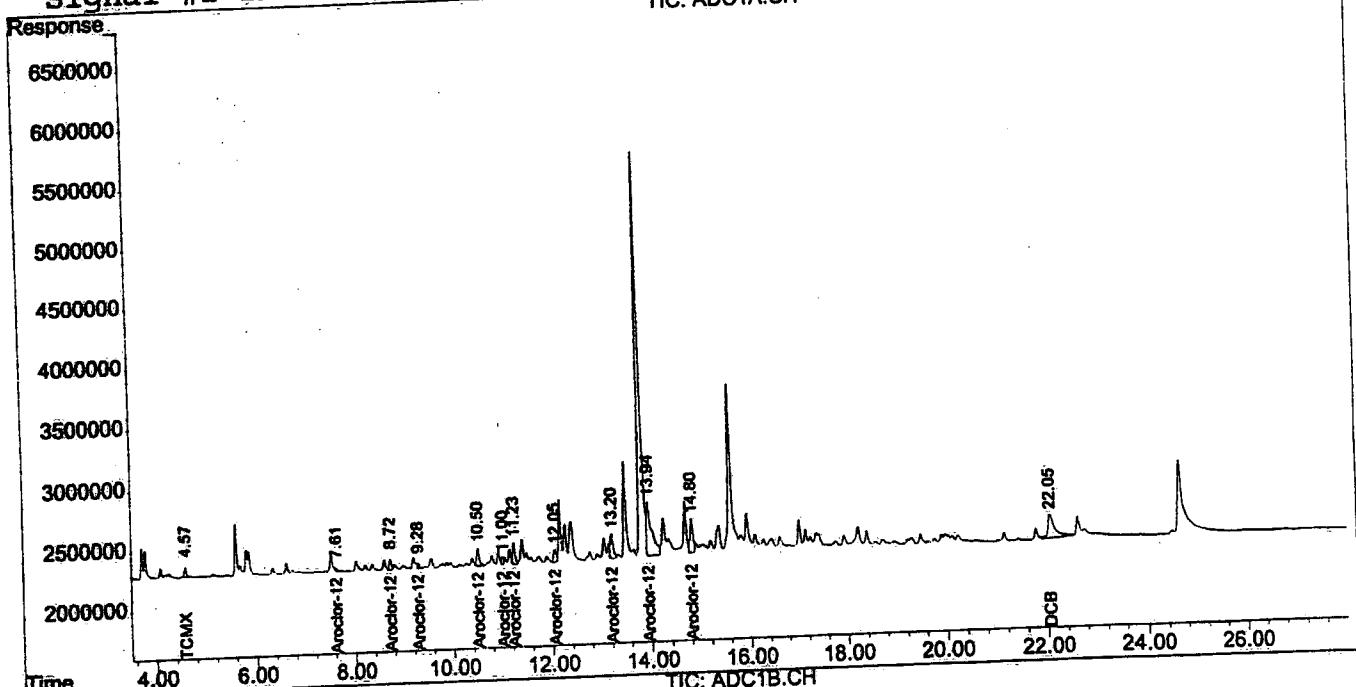
000061

QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4478.D\ADC1A.CH Vial: 14
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4478.D\ADC1B.CH
 Acq On : 23 Feb 2001 14:51 Operator:
 Sample : SS-12,1071-010,S,30.2g,21.1,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 8:33 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info : TIC: ADC1A.CH



QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4447.D\ADC1A.CH Vial: 15
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4447.D\ADC1B.CH
 Acq On : 22 Feb 2001 21:06 Operator:
 Sample : SS-2,1071-011,S,30.1g,13.8,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 06:58:43 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj.	Signal #2 Phase:					
Signal #1 Phase	Signal #2 Info:					
Signal #1 Info						
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2

System Monitoring Compounds

Target Compounds					N.D.	N.D.
Sum Aroclor-1016					0.000	0.000
Average Aroclor-1016						
Sum Aroclor-1221					0.000	0.000
Average Aroclor-1221						
Sum Aroclor-1232					0.000	0.000
Average Aroclor-1232						
Sum Aroclor-1242					0.000	0.000
Average Aroclor-1242						
23) L6 Aroclor-1248	7.61	8.93	18506538	16355083	1406.824	1515.491
24) L6 Aroclor-1248	{2}	8.72	15965207	32585902	3697.400	3304.847
25) L6 Aroclor-1248	{3}	9.29	13728711	36833866	3183.717	3955.578
26) L6 Aroclor-1248	{4}	10.49	46612694	25361941	3967.831	2622.510 #
27) L6 Aroclor-1248	{5}	11.00	31759424	10953159	3057.643	2406.147
Sum Aroclor-1248			126.6E6	122.1E6	15313.414	13804.573
Average Aroclor-1248					3062.683	2760.915
28) L7 Aroclor-1254	11.23	12.71	26496507	20771614	1975.412	2085.805
29) L7 Aroclor-1254	{2}	12.05	23792664	14591370	2598.070	2225.808
30) L7 Aroclor-1254	{3}	13.20	42384919	28981012	2420.150	2694.008
31) L7 Aroclor-1254	{4}	13.94	24274399	18662337	948.339	1559.186 #
32) L7 Aroclor-1254	{5}	14.81	27099722	31393126	1179.798	1783.245 #
Sum Aroclor-1254			144.0E6	114.4E6	9121.768	10348.053
Average Aroclor-1254					1824.354	2069.611
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
 vpcb0220.M Mon Feb 26 08:53:26 2001 V3400

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QUANTIFICATION REPORT

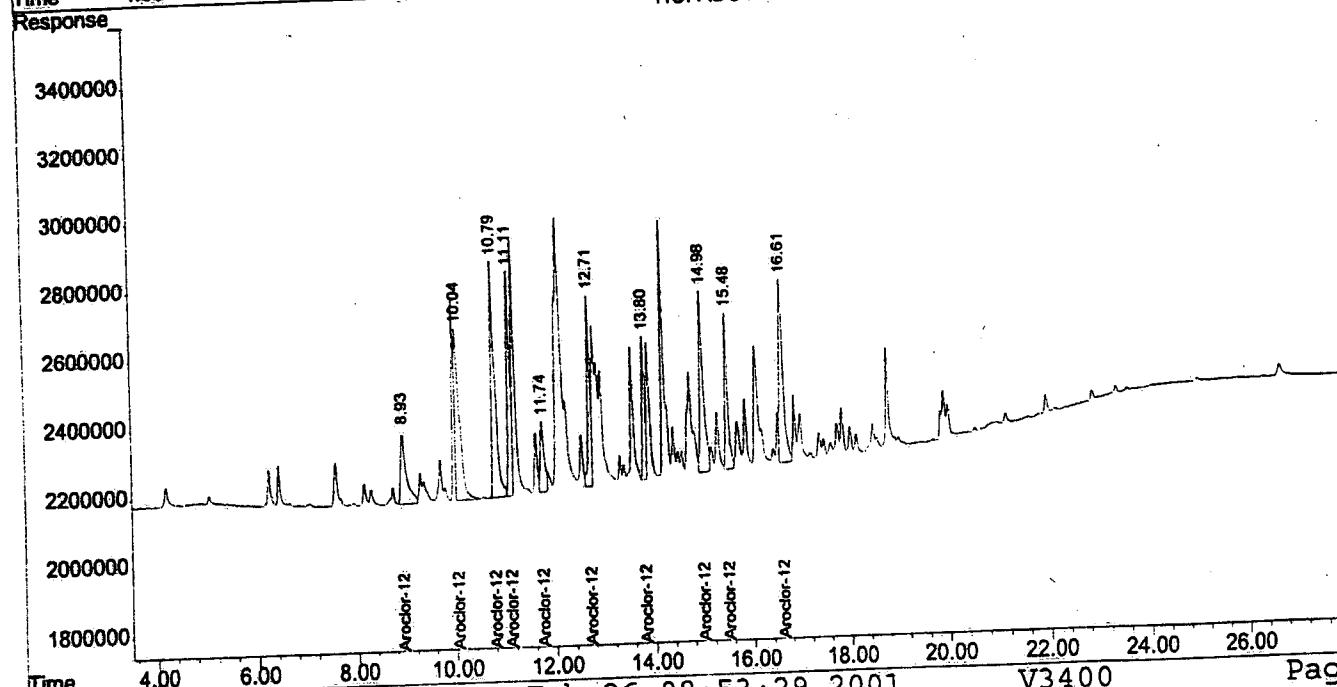
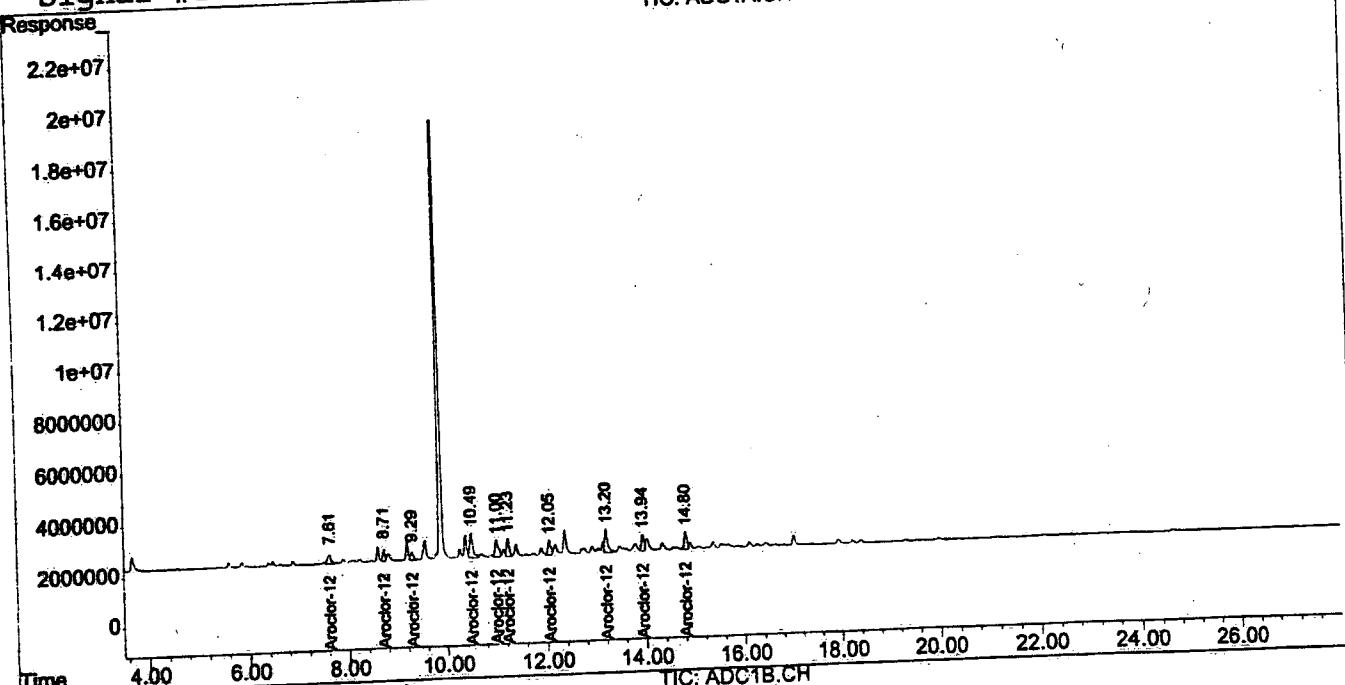
Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4447.D\ADC1A.CH Vial: 15
Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4447.D\ADC1B.CH
Acq On : 22 Feb 2001 21:06 Operator:
Sample : SS-2,1071-011,S,30.1g,13.8,02/22/01 Inst : V_3400
Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
IntFile Signal #1: events.e IntFile Signal #2: events2.e
Quant Time: Feb 26 8:12 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
Title :
Last Update : Wed Feb 21 07:17:40 2001
Response via : Multiple Level Calibration
DataAcq Meth : VPCB0220.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

TIC: ADC1A.CH



QUANTIFICATION REPORT

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4480.D\ADC1A.CH Vial: 16
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4480.D\ADC1B.CH
 Acq On : 23 Feb 2001 15:52 Operator:
 Sample : SS-11, 1071-012, S, 30.4g, 23.6, 02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 26 07:00:02 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

1) S TCMX	4.58	5.04	1607552	1408698	1.782	1.771
Spiked Amount	100.000		Recovery	=	1.78%	1.77%
2) S DCB	22.09	23.38	2567630	1148222	3.176	2.120 #
Spiked Amount	100.000		Recovery	=	3.18%	2.12%

Target Compounds

Sum Aroclor-1016	0	0	N.D.	N.D.
Average Aroclor-1016			0.000	0.000

Sum Aroclor-1221

Average Aroclor-1221	0	0	N.D.	N.D.
			0.000	0.000

Sum Aroclor-1232

Average Aroclor-1232	0	0	N.D.	N.D.
			0.000	0.000

Sum Aroclor-1242

Average Aroclor-1242	0	0	N.D.	N.D.
			0.000	0.000

Sum Aroclor-1248	7.61	8.95	1721450	1254684	130.861	116.261
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23) L6 Aroclor-1248	{2}	8.72	10.05	2775565	6734152	642.796	682.975
24) L6 Aroclor-1248	{3}	9.29	10.80	2626570	5085858	609.107	546.169
25) L6 Aroclor-1248	{4}	10.50	11.12	10951270	4653047	932.209	481.141 #
26) L6 Aroclor-1248	{5}	11.00	11.75	7551433	1184860	727.015	260.285 #
27) L6 Aroclor-1248				25626287	18912601	3041.988	2086.831
Sum Aroclor-1248						608.398	417.366

Average Aroclor-1248						
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28) L7 Aroclor-1254	11.24	12.72	5894290	3294087	439.441	330.779
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29) L7 Aroclor-1254	{2}	12.06	13.82	4256470	2671888	464.791	407.577
30) L7 Aroclor-1254	{3}	13.21	14.99	8616839	6763819	492.016	628.749 #
31) L7 Aroclor-1254	{4}	13.94	15.50	5645568	3839658	220.558	320.793 #
32) L7 Aroclor-1254	{5}	14.81	16.62	6438098	6639718	280.285	377.160 #
Sum Aroclor-1254				30851265	23209169	1897.090	2065.059
Average Aroclor-1254						379.418	413.012

Sum Aroclor-1260	0	0	N.D.	N.D.
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Average Aroclor-1260			0.000	0.000
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

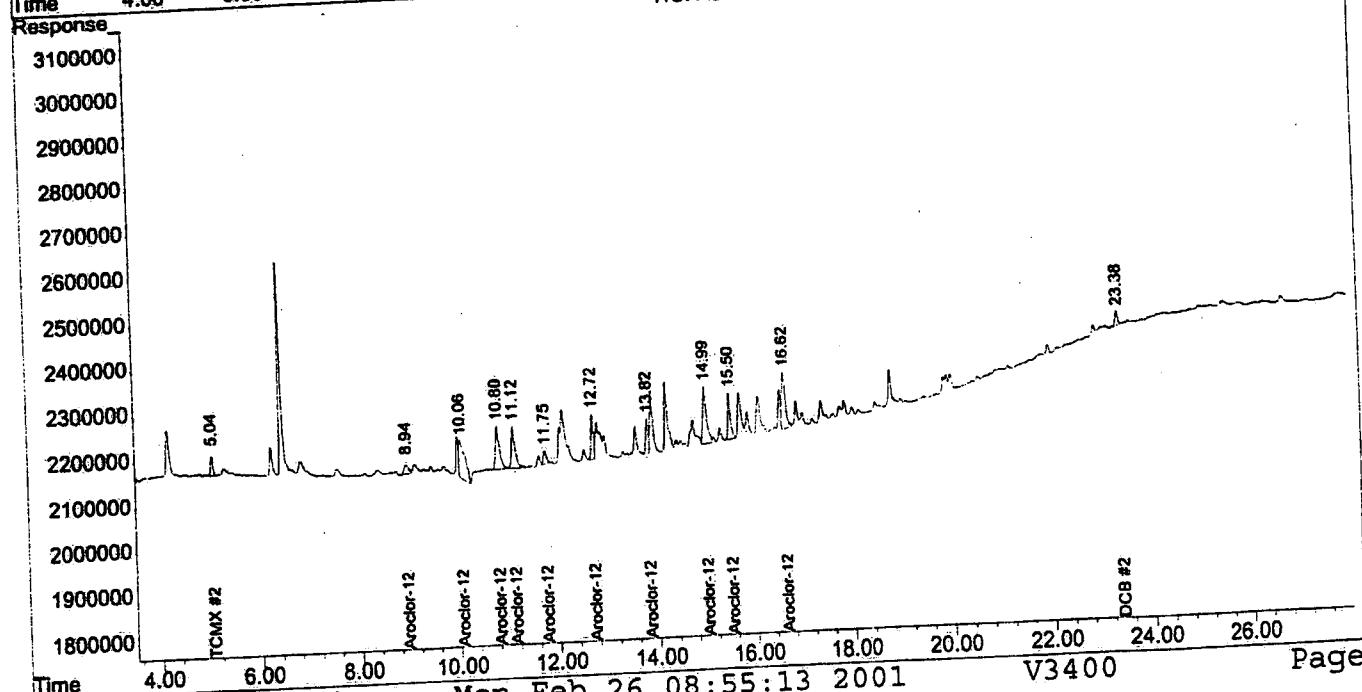
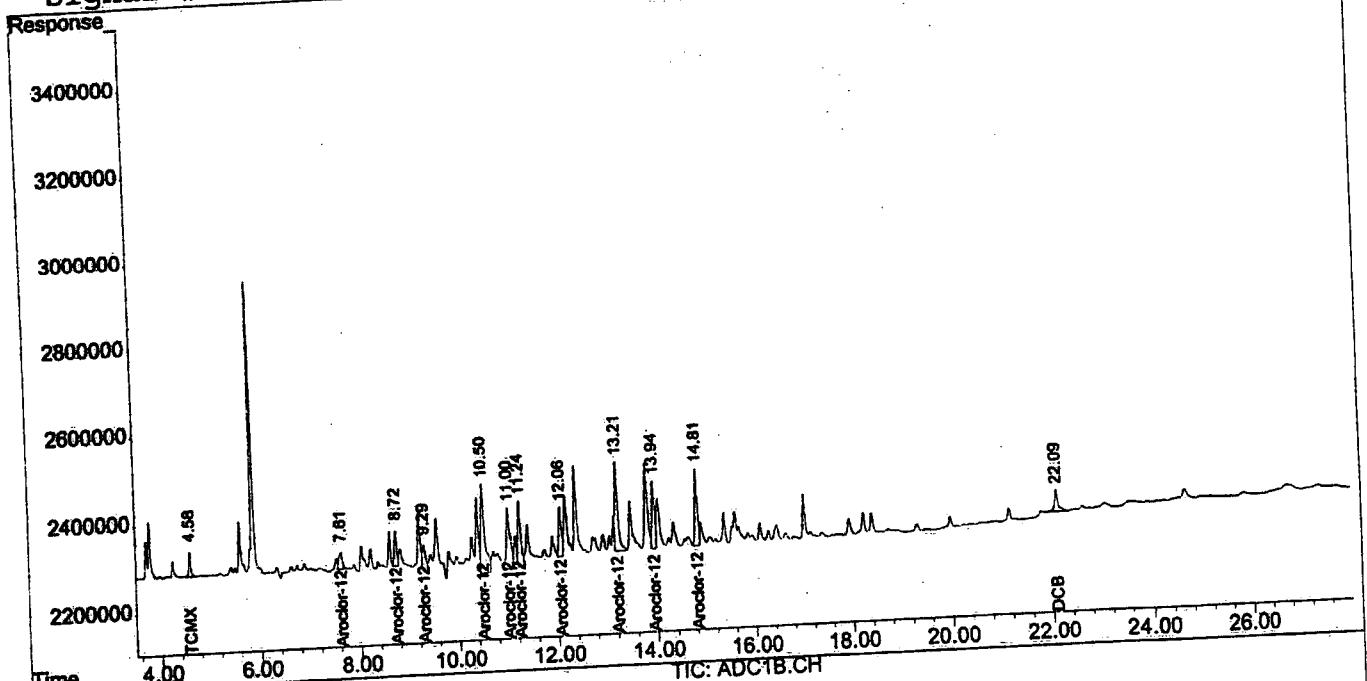
VPCB0220.M Mon Feb 26 08:55:09 2001 V3400

QUANTIFICATION
 Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4480.D\ADC1A.CH Vial: 16
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4480.D\ADC1B.CH
 Acq On : 23 Feb 2001 15:52 Operator:
 Sample : SS-11,1071-012,S,30.4g,23.6,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 7:51 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :
 TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4481.D\ADC1A.CH Vial: 17
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4481.D\ADC1B.CH
 Acq On : 23 Feb 2001 16:23 Operator:
 Sample : SS-1,1071-013,S,30.7g,24.0,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:00:08 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	4.58	5.04	1732578	1659752	1.921	2.087
Spiked Amount	100.000		Recovery	=	1.92%	2.09%
2) S DCB	22.09	23.37	1362125	1064719	1.685	1.966m
Spiked Amount	100.000		Recovery	=	1.69%	1.97%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
<hr/>						
23) L6 Aroclor-1248	7.62	8.96	522358	443618	39.708m	41.106m
24) L6 Aroclor-1248	{2}	8.72	10.06	469186	1167398	108.659
25) L6 Aroclor-1248	{3}	9.28	10.80	663543	1440976	153.877m
26) L6 Aroclor-1248	{4}	10.50	11.12	2589293	1291108	220.409
27) L6 Aroclor-1248	{5}	11.00	11.75	1569870	387110	151.139m
Sum Aroclor-1248				5814249	4730209	673.794
Average Aroclor-1248						134.759
28) L7 Aroclor-1254	11.23	12.72	2216427	1541985	165.243	154.840
29) L7 Aroclor-1254	{2}	12.06	13.82	1782187	1160413	194.608
30) L7 Aroclor-1254	{3}	13.21	15.00	3276131	2082129	187.065
31) L7 Aroclor-1254	{4}	13.94	15.49	2947896	2034058	115.167
32) L7 Aroclor-1254	{5}	14.81	16.62	3119442	3059183	135.806
Sum Aroclor-1254				13342083	9877769	797.889
Average Aroclor-1254						159.578
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
<hr/>						

(#)=amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

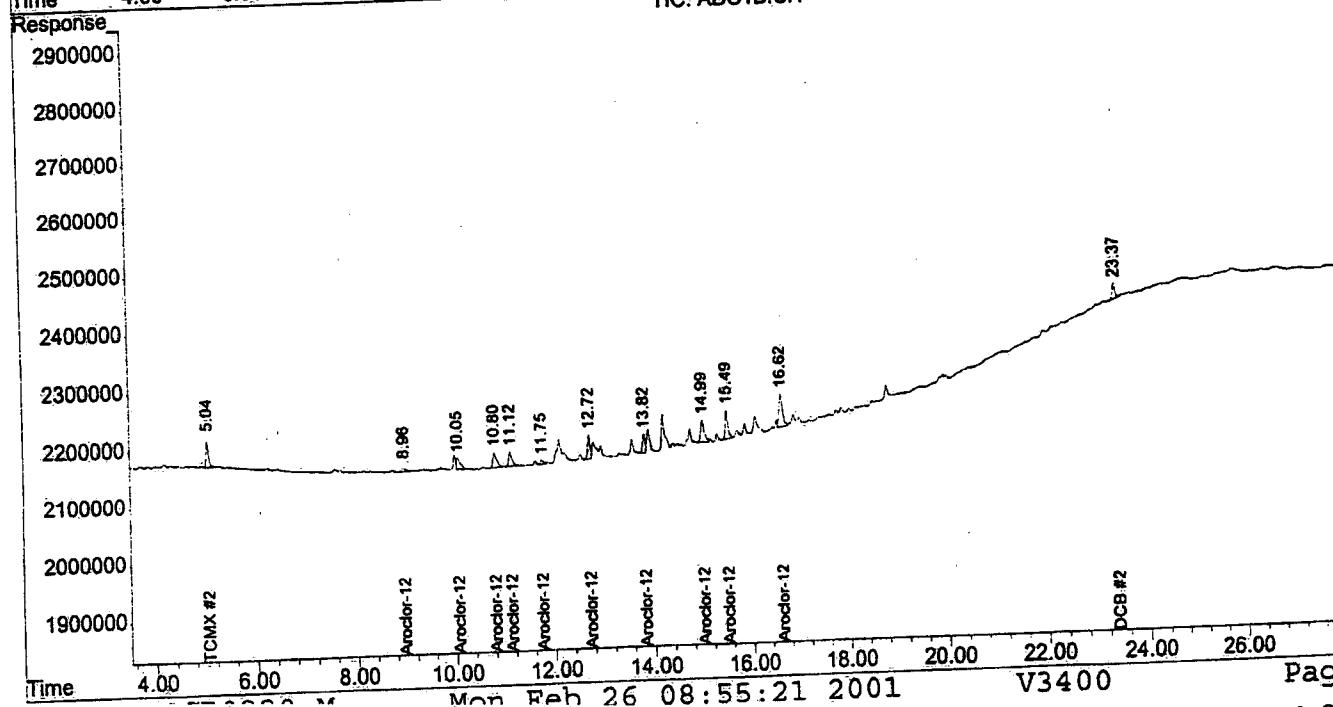
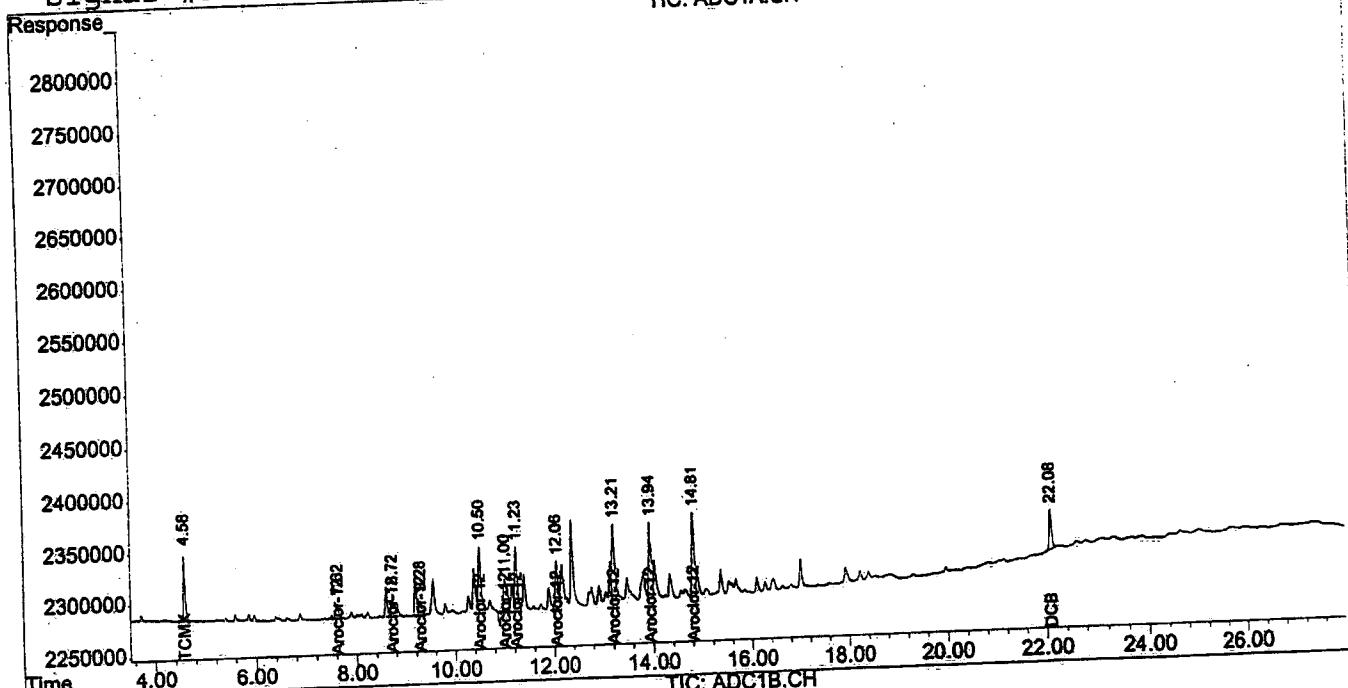
Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4481.D\ADC1A.CH Vial: 17
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4481.D\ADC1B.CH
 Acq On : 23 Feb 2001 16:23 Operator:
 Sample : SS-1,1071-013,S,30.7g,24.0,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 7:54 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4482.D\ADC1A.CH Vial: 18
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4482.D\ADC1B.CH
 Acq On : 23 Feb 2001 16:54 Operator:
 Sample : SS-10,1071-014,S,30.1g,11.0,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:00:15 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
	System Monitoring Compounds						
1) S TCMX		4.58	5.04	1681685	1561154	1.865	1.963
Spiked Amount	100.000			Recovery	=	1.87%	1.96%
2) S DCB		22.10	23.38	1942197	1468475	2.403	2.711
Spiked Amount	100.000			Recovery	=	2.40%	2.71%
<hr/>							
Target Compounds							
Sum Aroclor-1016				0	0	N.D.	N.D.
Average Aroclor-1016						0.000	0.000
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
Sum Aroclor-1248		7.62	8.95	3880088	3234599	294.955	299.724
23) L6 Aroclor-1248	{2}	8.73	10.06	4455543	7748296	1031.864	785.829
24) L6 Aroclor-1248	{3}	9.29	10.81	3744852	9153987	868.439	983.044
25) L6 Aroclor-1248	{4}	10.51	11.13	14562760	6653365	1239.632	687.980
26) L6 Aroclor-1248	{5}	11.01	11.76	5791515	2682838	557.579	589.355
27) L6 Aroclor-1248				32434757	29473084	3992.469	3345.932
Sum Aroclor-1248						798.494	669.186
Average Aroclor-1248							
28) L7 Aroclor-1254	{2}	11.24	12.73	13962217	10914201	1040.934	1095.962
29) L7 Aroclor-1254	{3}	12.06	13.83	11134275	7654249	1215.821	1167.600
30) L7 Aroclor-1254	{4}	13.22	15.00	22623804	15862693	1291.804	1474.559
31) L7 Aroclor-1254	{5}	13.95	15.50	18264319	13468329	713.540	1125.241
32) L7 Aroclor-1254		14.82	16.63	20871875	23082157	908.666	1311.152
Sum Aroclor-1254				86856490	70981630	5170.766	6174.515
Average Aroclor-1254						1034.153	1234.903
Sum Aroclor-1260				0	0	N.D.	N.D.
Average Aroclor-1260						0.000	0.000
<hr/>							

/41 Amounts differ by > 25% (m)=manual int.

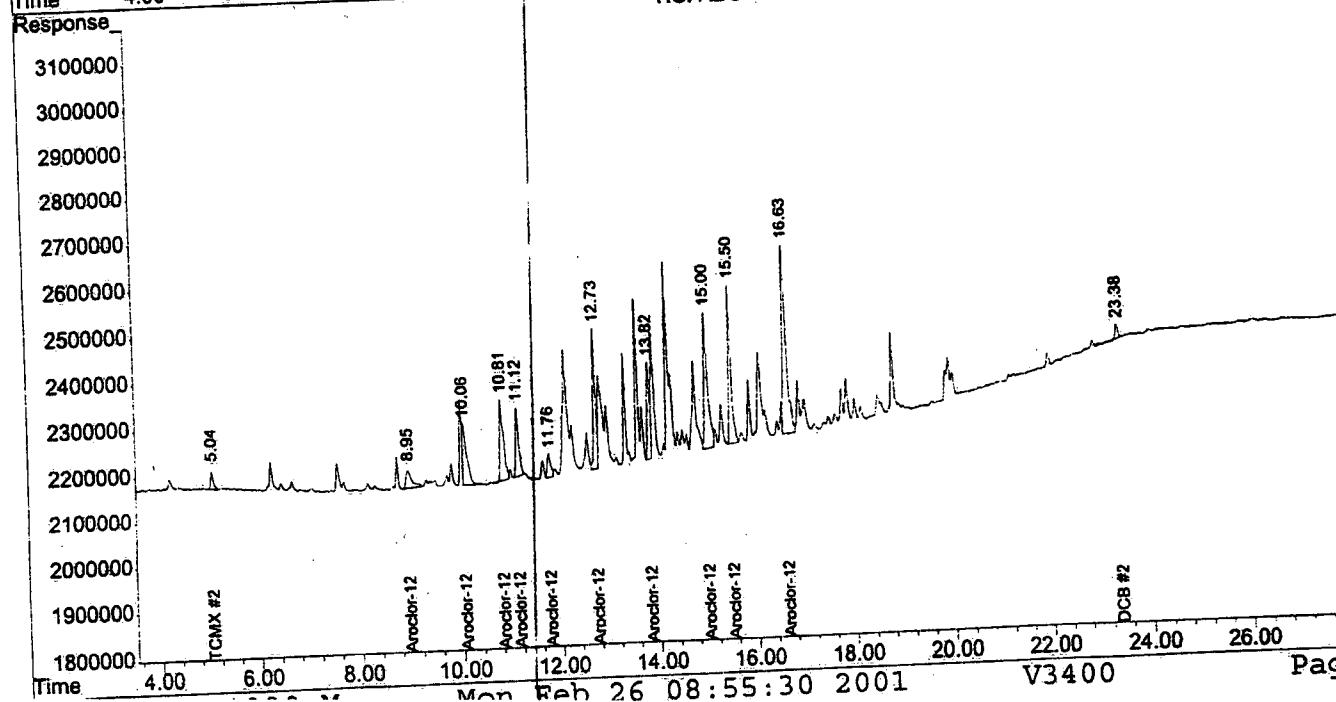
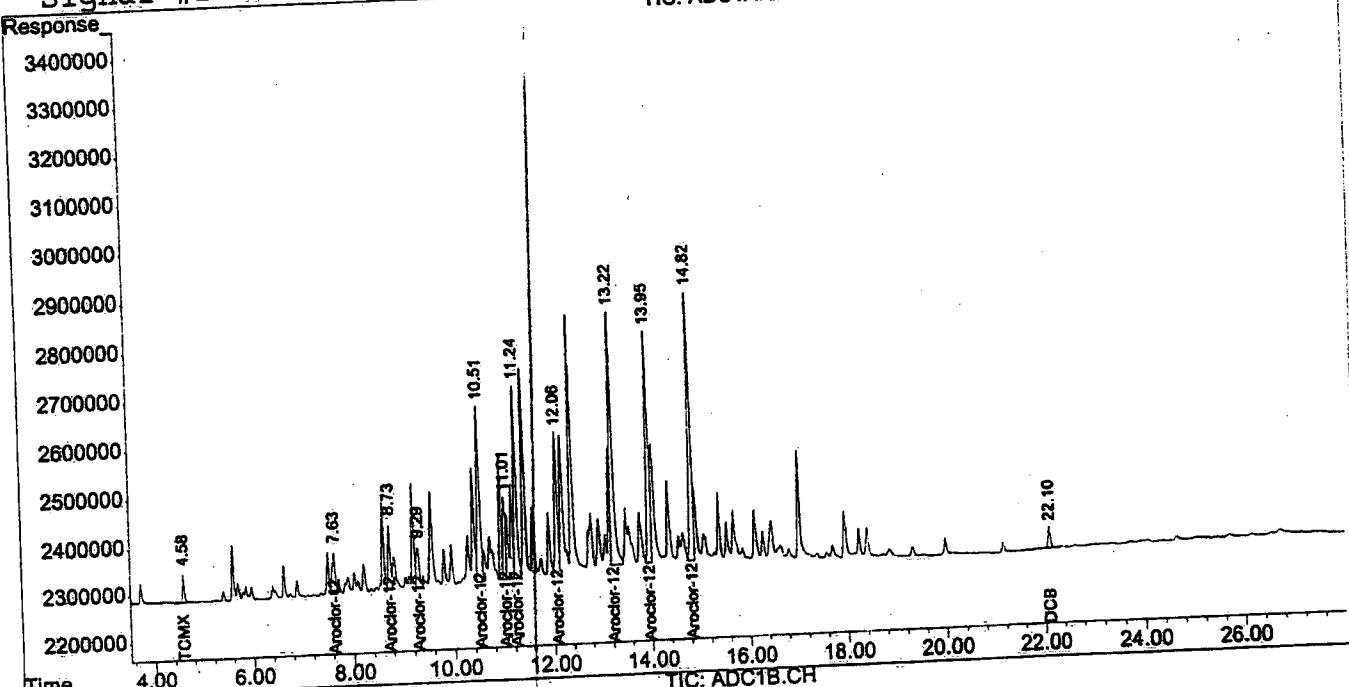
Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4482.D\ADC1A.CH Vial: 18
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4482.D\ADC1B.CH
 Acq On : 23 Feb 2001 16:54 Operator:
 Sample : SS-10, 1071-014, S, 30.1g, 11.0, 02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 7:54 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info : TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4483.D\ADC1A.CH Vial: 19
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4483.D\ADC1B.CH
 Acq On : 23 Feb 2001 17:25 Operator:
 Sample : SS-17,1071-015,S,30.4g,22.8,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:00:23 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :

Signal #2 Phase:

Signal #1 Phase :

Signal #2 Info :

Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds

Target Compounds			0	0	N.D.	N.D.
Sum Aroclor-1016					0.000	0.000
Average Aroclor-1016			0	0	N.D.	N.D.
Sum Aroclor-1221					0.000	0.000
Average Aroclor-1221			0	0	N.D.	N.D.
Sum Aroclor-1232					0.000	0.000
Average Aroclor-1232			0	0	N.D.	N.D.
Sum Aroclor-1242					0.000	0.000
Average Aroclor-1242			0	0	N.D.	N.D.
23) L6 Aroclor-1248	7.62	8.95	13811780	10917995	1049.939	1011.681
24) L6 Aroclor-1248	{2}	8.73	16193359	31602129	3750.238	3205.073
25) L6 Aroclor-1248	{3}	9.30	10.81	14918704	38486351	3459.679
26) L6 Aroclor-1248	{4}	10.50	11.13	45468653	37332379	3870.446m
27) L6 Aroclor-1248	{5}	11.01	11.76	34415850	11010456	3313.390
Sum Aroclor-1248				124.8E6	129.3E6	15443.692
Average Aroclor-1248						3088.738
28) L7 Aroclor-1254	11.24	12.73	27603196	21879928	2057.919	2197.098
29) L7 Aroclor-1254	{2}	12.07	13.83	26684982	15910352	2913.901
30) L7 Aroclor-1254	{3}	13.22	15.00	44298640	29773714	2529.422
31) L7 Aroclor-1254	{4}	13.95	15.50	18366465	15061508	717.531
32) L7 Aroclor-1254	{5}	14.82	16.63	21910664	26999334	953.890
Sum Aroclor-1254				138.9E6	109.6E6	9172.663
Average Aroclor-1254						1834.533
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

----- (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4483.D\ADC1A.CH Vial: 19
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4483.D\ADC1B.CH
 Acq On : 23 Feb 2001 17:25 Operator:
 Sample : SS-17,1071-015,S,30.4g,22.8,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 8:32 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

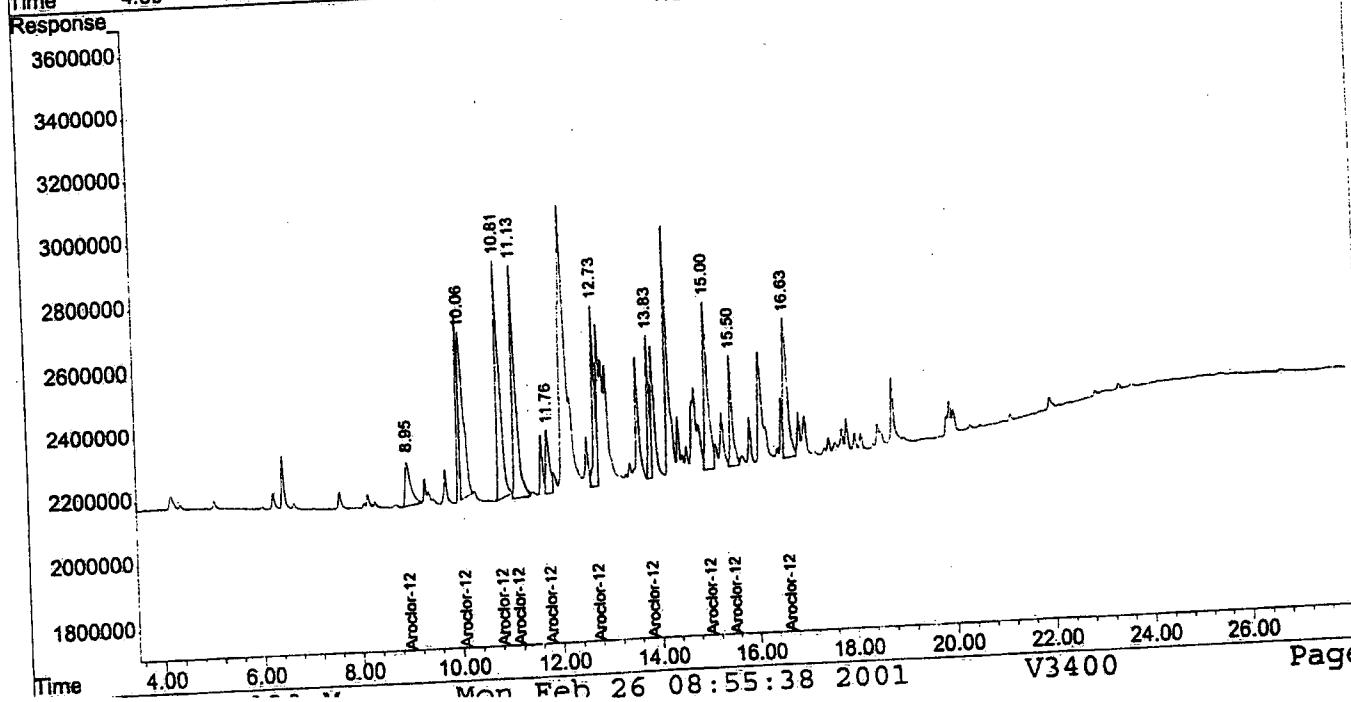
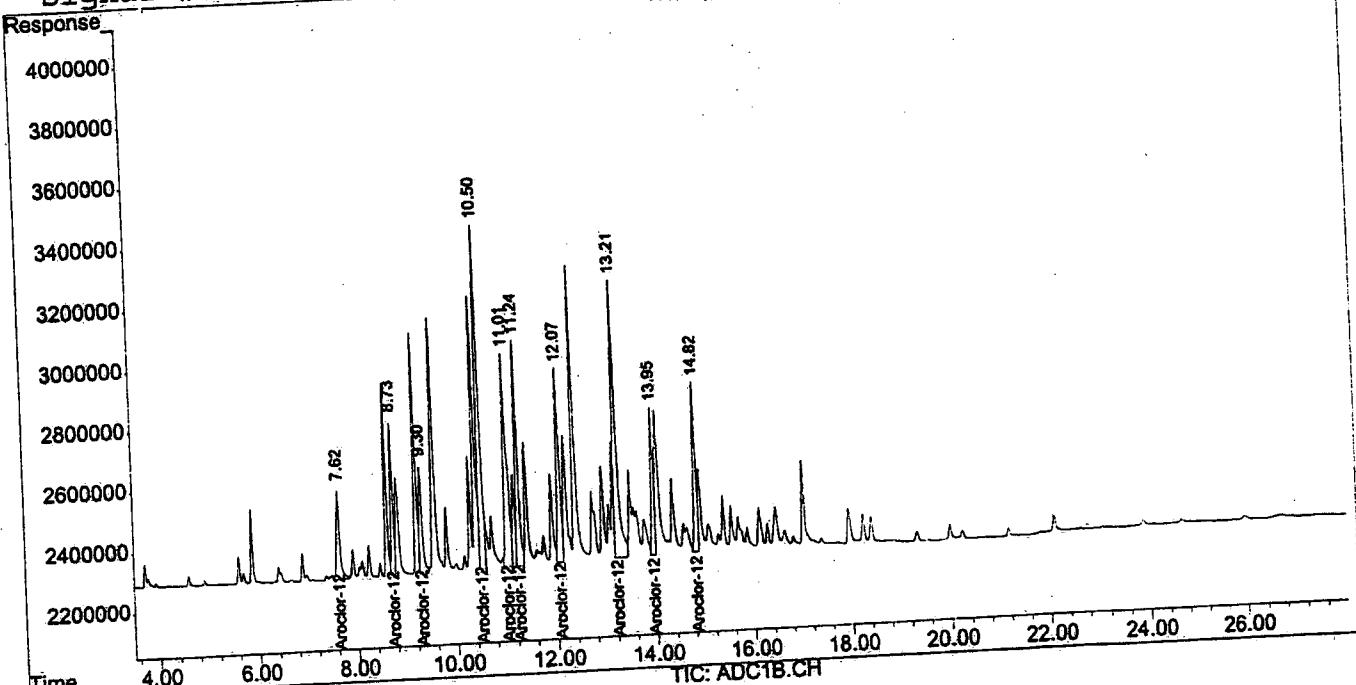
Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4487.D\ADC1A.CH Vial: 23
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4487.D\ADC1B.CH
 Acq On : 23 Feb 2001 19:28 Operator:
 Sample : SS-8,1071-016,S,30.5g,26.2,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:00:53 2001 Quant Results File: VPCB0220.RES

		Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
<hr/>									
System Monitoring Compounds									
1)	S	TCMX	4.58	5.05	1791168	1721625	1.986	2.164	
		Spiked Amount	100.000		Recovery	=	1.99%	2.16%	
2)	S	DCB	22.10	23.38	2587341	1392552	3.201	2.571m	
		Spiked Amount	100.000		Recovery	=	3.20%	2.57%	
<hr/>									
Target Compounds									
		Sum Aroclor-1016			0	0	N.D.	N.D.	
		Average Aroclor-1016					0.000	0.000	
		Sum Aroclor-1221			0	0	N.D.	N.D.	
		Average Aroclor-1221					0.000	0.000	
		Sum Aroclor-1232			0	0	N.D.	N.D.	
		Average Aroclor-1232					0.000	0.000	
		Sum Aroclor-1242			0	0	N.D.	N.D.	
		Average Aroclor-1242					0.000	0.000	
		Sum Aroclor-1248			9483869	8056077	720.942	746.490	
23)	L6	Aroclor-1248	7.63	8.96	9606552	20615472	2224.792	2090.812	
24)	L6	Aroclor-1248	{2}	8.73	10.07	8282523	22715757	1920.734	2439.438 #
25)	L6	Aroclor-1248	{3}	9.30	10.81	29276245	20713568	2492.093	2141.853
26)	L6	Aroclor-1248	{4}	10.51	11.13	20449985	6639603	1968.825	1458.562 #
27)	L6	Aroclor-1248	{5}	11.01	11.77	77099174	78740477	9327.386	8877.155
		Sum Aroclor-1248					1865.477	1775.431	
		Average Aroclor-1248							
		Sum Aroclor-1254			14618296	10353572	1089.848	1039.666	
28)	L7	Aroclor-1254	11.25	12.73	14209000	7977339	1551.570	1216.885	
29)	L7	Aroclor-1254	{2}	12.07	13.83	23107810	16070670	1319.440	1493.892
30)	L7	Aroclor-1254	{3}	13.22	15.01	8427961	6338129	329.259	529.533 #
31)	L7	Aroclor-1254	{4}	13.96	15.51	9990174	12209126	434.926	693.523 #
32)	L7	Aroclor-1254	{5}	14.82	16.64	70353240	52948836	4725.043	4973.500
		Sum Aroclor-1254					945.009	994.700	
		Average Aroclor-1254							
		Sum Aroclor-1260			0	0	N.D.	N.D.	
		Average Aroclor-1260					0.000	0.000	
<hr/>									

..... amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4487.D\ADC1A.CH Vial: 23
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4487.D\ADC1B.CH
 Acq On : 23 Feb 2001 19:28 Operator:
 Sample : SS-8,1071-016,S,30.5g,26.2,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 26 8:00 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :

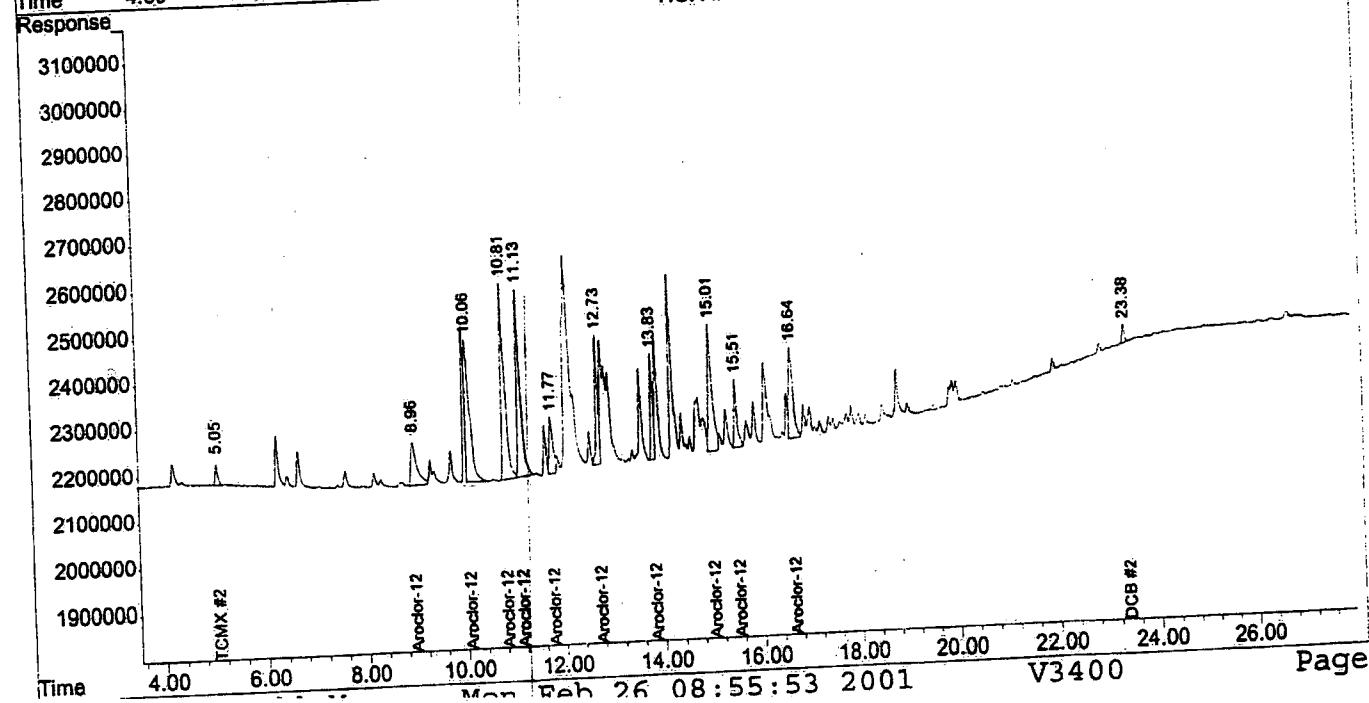
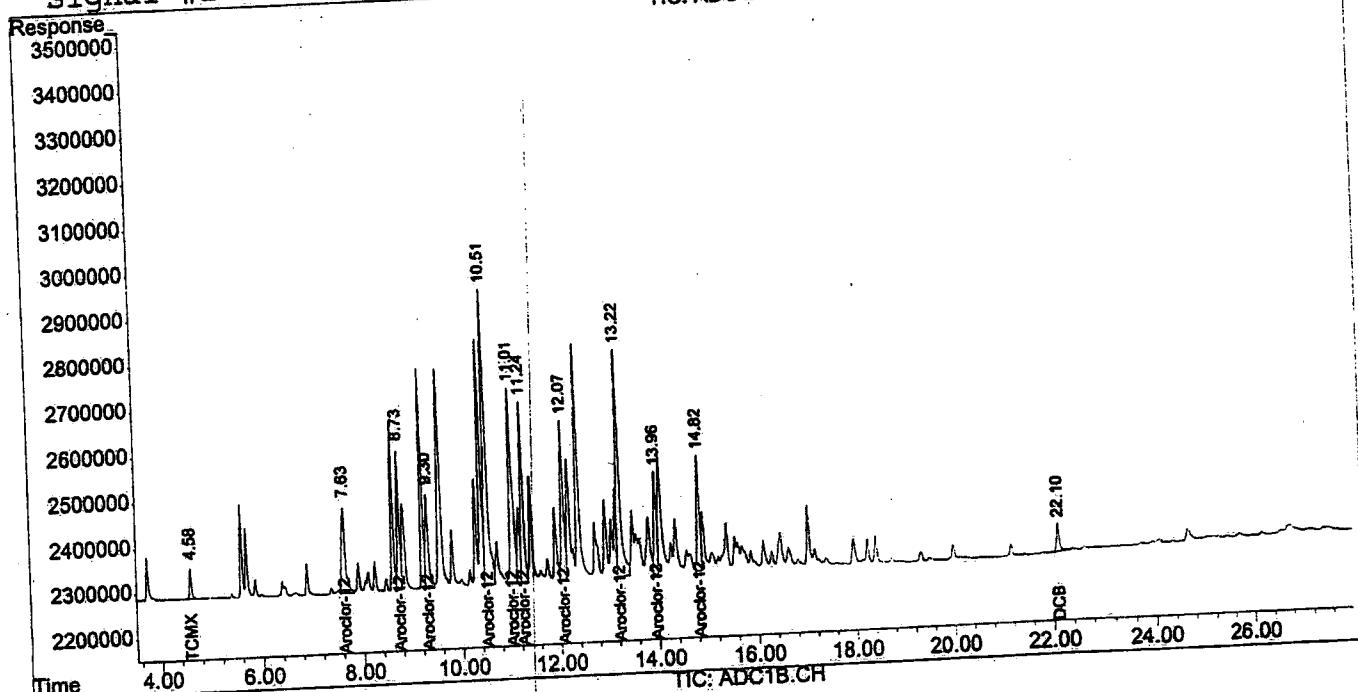
Signal #2 Phase:

Signal #1 Phase:

Signal #2 Info:

Signal #1 Info:

TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4488.D\ADC1A.CH Vial: 24
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4488.D\ADC1B.CH
 Acq On : 23 Feb 2001 19:59 Operator:
 Sample : SS-18,1071-017,S,30.5g,24.9,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:01:02 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1) S	TCMX	4.58	5.05	1714011	1768575	1.900	2.223
	Spiked Amount	100.000		Recovery	=	1.90%	2.22%
2) S	DCB	22.11	23.39	3863775	1450529	4.780	2.678 #
	Spiked Amount	100.000		Recovery	=	4.78%	2.68%
<hr/>							
System Monitoring Compounds							
1) S	TCMX	4.58	5.05	1714011	1768575	1.900	2.223
	Spiked Amount	100.000		Recovery	=	1.90%	2.22%
2) S	DCB	22.11	23.39	3863775	1450529	4.780	2.678 #
	Spiked Amount	100.000		Recovery	=	4.78%	2.68%
<hr/>							
Target Compounds							
Sum Aroclor-1016							
Average Aroclor-1016				0	0	N.D.	N.D.
						0.000	0.000
<hr/>							
Sum Aroclor-1221							
Average Aroclor-1221				0	0	N.D.	N.D.
						0.000	0.000
<hr/>							
Sum Aroclor-1232							
Average Aroclor-1232				0	0	N.D.	N.D.
						0.000	0.000
<hr/>							
Sum Aroclor-1242							
Average Aroclor-1242				0	0	N.D.	N.D.
						0.000	0.000
<hr/>							
23) L6	Aroclor-1248	7.63	8.95	13392027	11700090	1018.031	1084.151
24) L6	Aroclor-1248	{2}	8.73	7931938	17121184	1836.966	1736.422
25) L6	Aroclor-1248	{3}	9.30	6131175	17304401	1421.832	1858.314 #
26) L6	Aroclor-1248	{4}	10.51	27286491	17642451	2322.719	1824.289
27) L6	Aroclor-1248	{5}	11.02	21023825	8541611	2024.071	1876.388
	Sum Aroclor-1248			75765456	72309737	8623.619	8379.565
	Average Aroclor-1248					1724.724	1675.913
<hr/>							
28) L7	Aroclor-1254	11.25	12.74	12204460	7668820	909.887	770.073
29) L7	Aroclor-1254	{2}	12.07	11617686	5736913	1268.608	875.125 #
30) L7	Aroclor-1254	{3}	13.23	18612573	11704299	1062.765	1088.005
31) L7	Aroclor-1254	{4}	13.96	5471229	3834941	213.747	320.399 #
32) L7	Aroclor-1254	{5}	14.83	6352708	7437315	276.568	422.467 #
	Sum Aroclor-1254			54258657	36382289	3731.575	3476.068
	Average Aroclor-1254					746.315	695.214
<hr/>							
Sum Aroclor-1260							
Average Aroclor-1260				0	0	N.D.	N.D.
						0.000	0.000
<hr/>							

(+) =Amounts differ by > 25% (m)=manual int. Page 1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4488.D\ADC1A.CH Vial: 24
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4488.D\ADC1B.CH
 Acq On : 23 Feb 2001 19:59 Operator:
 Sample : SS-18, 1071-017, S, 30.5g, 24.9, 02/22/01 Inst. : V_3400
 Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 8:02 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :

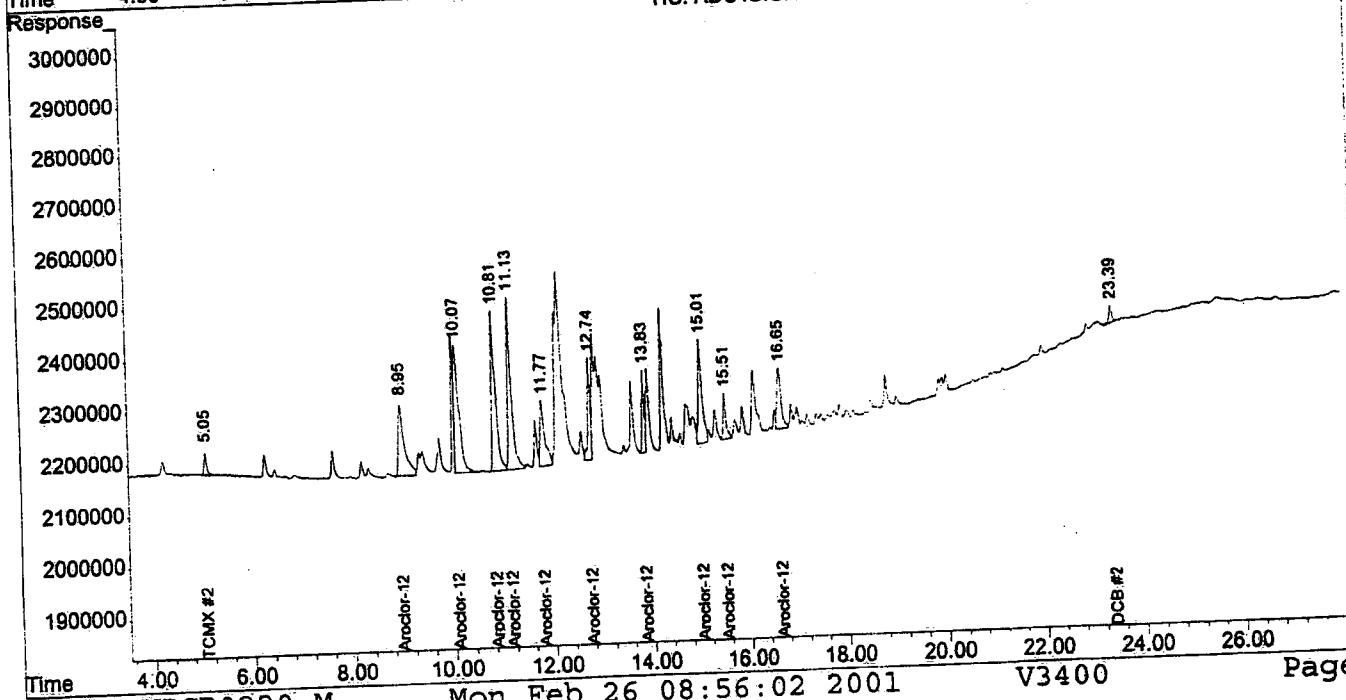
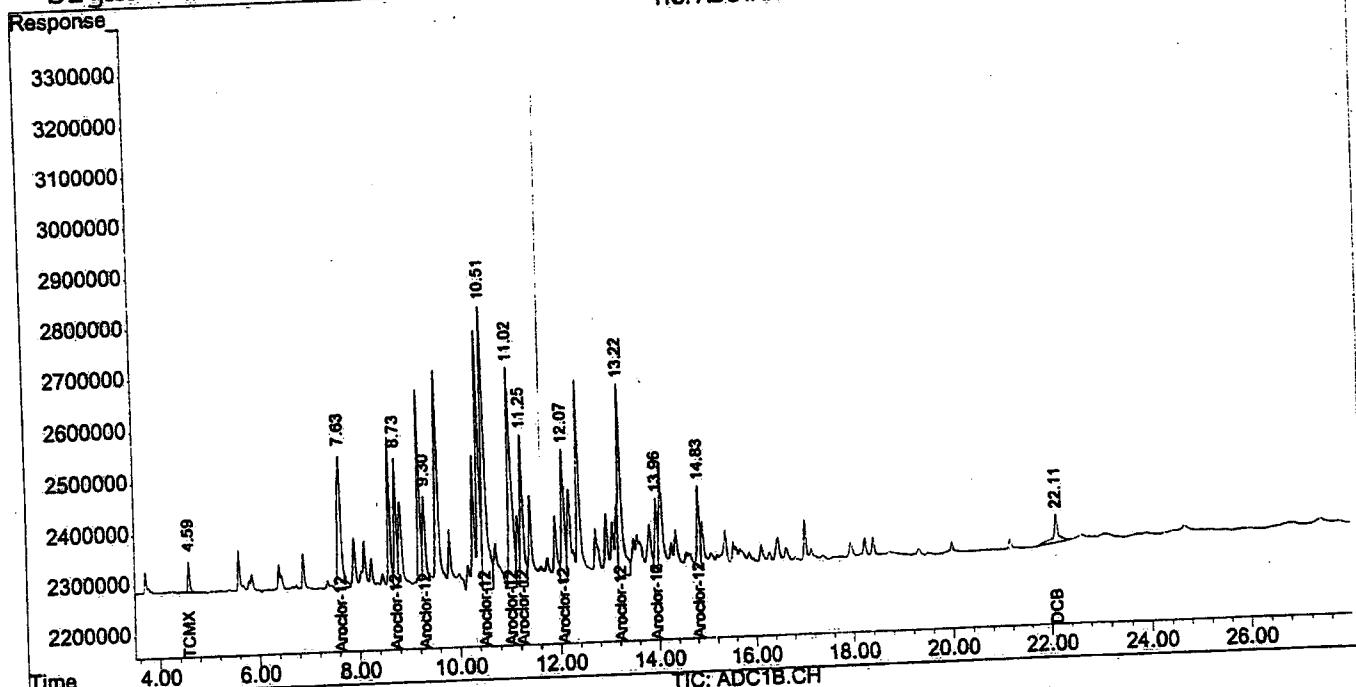
Signal #2 Phase:

Signal #1 Phase:

Signal #2 Info :

Signal #1 Info :

TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4489.D\ADC1A.CH Vial: 25
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4489.D\ADC1B.CH
 Acq On : 23 Feb 2001 20:30 Operator:
 Sample : SS-9,1071-018,S,30.5g,22.4,02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL,02/19/01,02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:01:09 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info:
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	4.58	5.05	1779878	1707200	1.973	2.146
Spiked Amount	100.000		Recovery	=	1.97%	2.15%
2) S DCB	22.11	23.38	4148910	1865441	5.132	3.444 #
Spiked Amount	100.000		Recovery	=	5.13%	3.44%
<hr/>						
Target Compounds					N.D.	N.D.
Sum Aroclor-1016			0	0	0.000	0.000
Average Aroclor-1016			0	0	N.D.	N.D.
Sum Aroclor-1221			0	0	0.000	0.000
Average Aroclor-1221			0	0	N.D.	N.D.
Sum Aroclor-1232			0	0	0.000	0.000
Average Aroclor-1232			0	0	N.D.	N.D.
Sum Aroclor-1242			0	0	0.000	0.000
Average Aroclor-1242			0	0	N.D.	N.D.
23) L6 Aroclor-1248	7.63	8.96	6034277	4080079	458.712	378.067
24) L6 Aroclor-1248	{2}	8.73	11062730	22888449	2562.030	2321.336
25) L6 Aroclor-1248	{3}	9.30	8698141	26483787	2017.117	2844.086 #
26) L6 Aroclor-1248	{4}	10.51	32385592	21063372	2756.771	2178.024
27) L6 Aroclor-1248	{5}	11.02	19112722	4813916	1840.080	1057.502 #
Sum Aroclor-1248			77293461	79329603	9634.710	8779.015
Average Aroclor-1248					1926.942	1755.803
28) L7 Aroclor-1254	11.25	12.73	22171622	18183967	1652.976	1825.964
29) L7 Aroclor-1254	{2}	12.07	18414196	10894295	2010.762	1661.846
30) L7 Aroclor-1254	{3}	13.22	38165297	42692151	2179.212	3968.564m#
31) L7 Aroclor-1254	{4}	13.96	24846151	17574850	970.676	1468.330 #
32) L7 Aroclor-1254	{5}	14.83	26491644	32664879	1153.325	1855.485 #
Sum Aroclor-1254			130.1E6	122.0E6	7966.950	10780.189
Average Aroclor-1254					1593.390	2156.038
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4489.D\ADC1A.CH Vial: 25
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4489.D\ADC1B.CH
 Acq On : 23 Feb 2001 20:30 Operator:
 Sample : SS-9, 1071-018, S, 30.5g, 22.4, 02/22/01 Inst : V_3400
 Misc : CILLI/BAYONNE_BARRELL, 02/19/01, 02/20/01, Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 8:03 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :

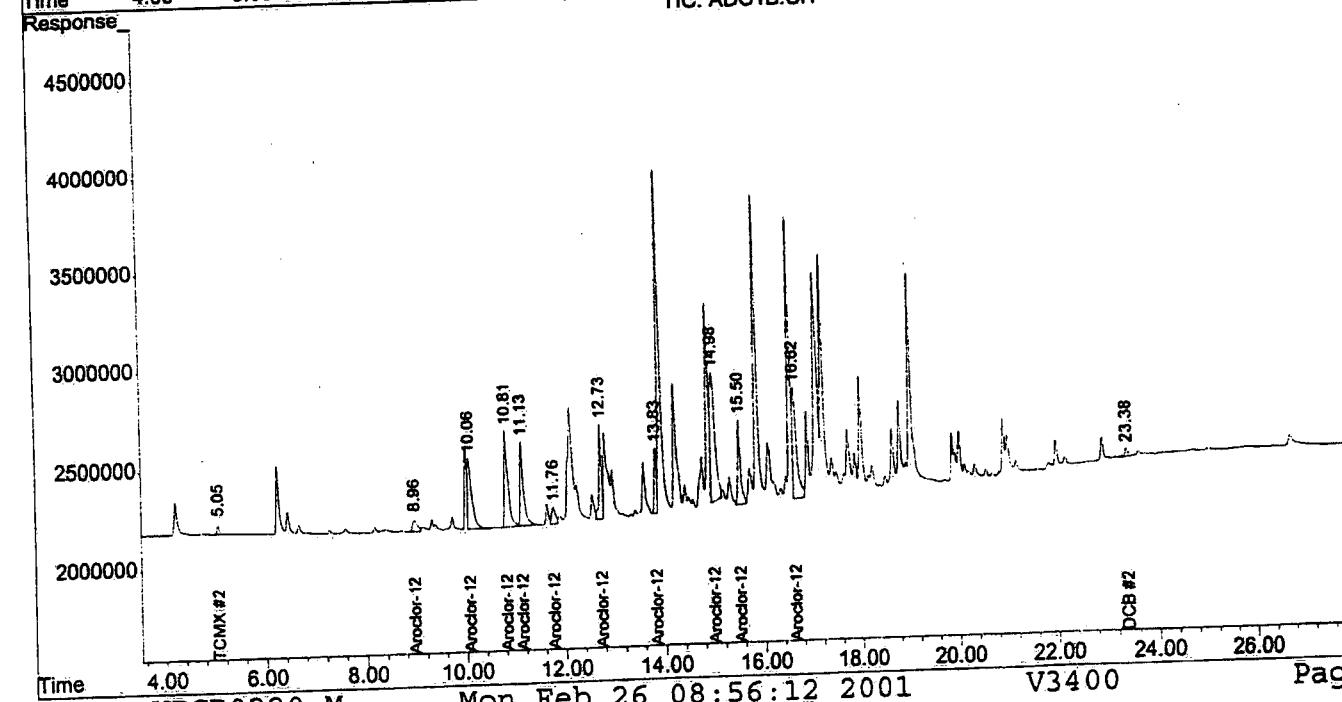
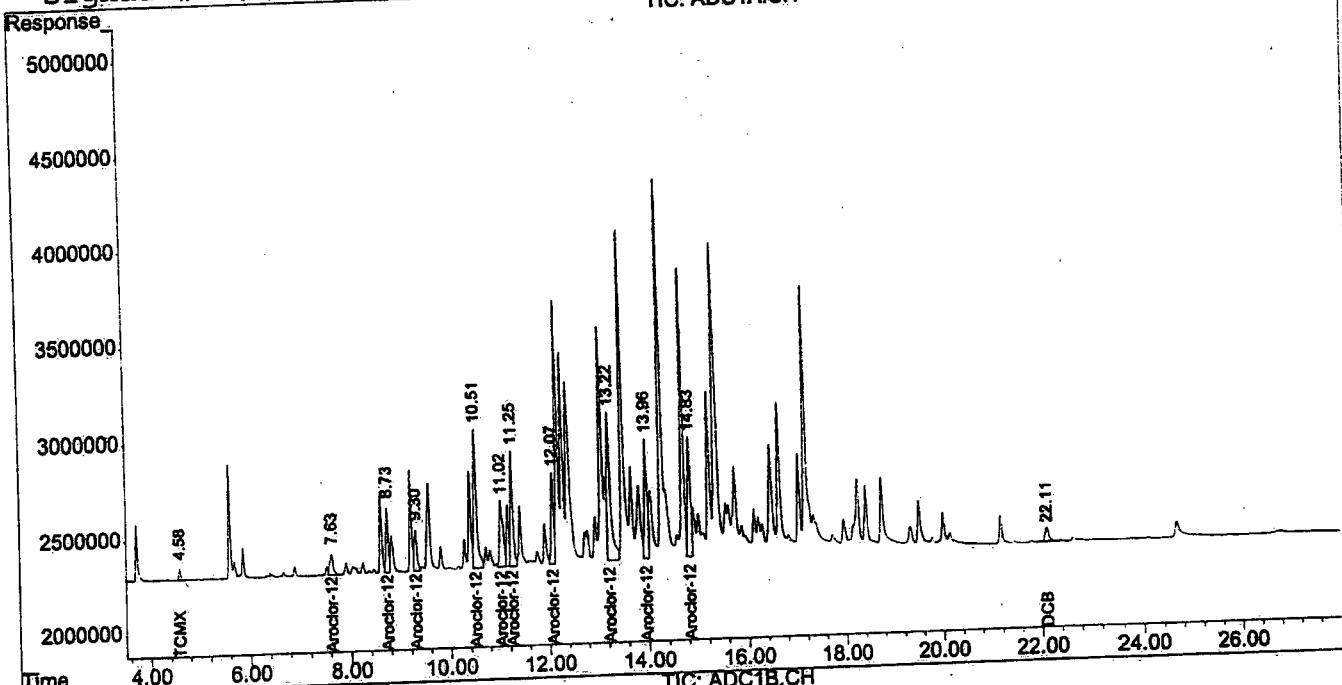
Signal #1 Phase :

Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :

TIC: ADC1A.CH



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4436.D\ADC1A.CH Vial: 4
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4436.D\ADC1B.CH
 Acq On : 22 Feb 2001 15:27 Operator:
 Sample : (1061..1071),0222-BLK1,S,30.0g,0,02/22/0 Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 06:57:36 2001 Quant Results File: VPCB0220.RES
 Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	4.57	5.03	78757255	79475125	87.320	99.913
Spiked Amount	100.000		Recovery	=	87.32%	99.91%
2) S DCB	22.08	23.35	62744363	46240641	77.618	85.366
Spiked Amount	100.000		Recovery	=	77.62%	85.37%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000

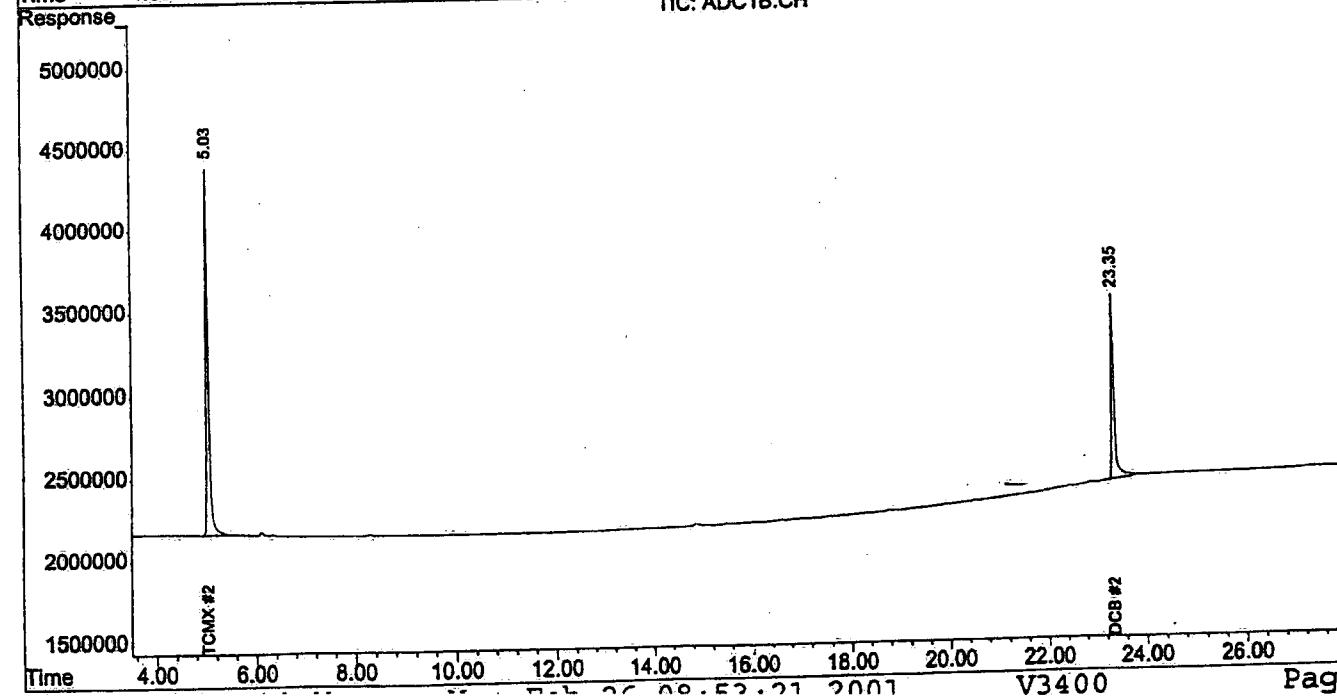
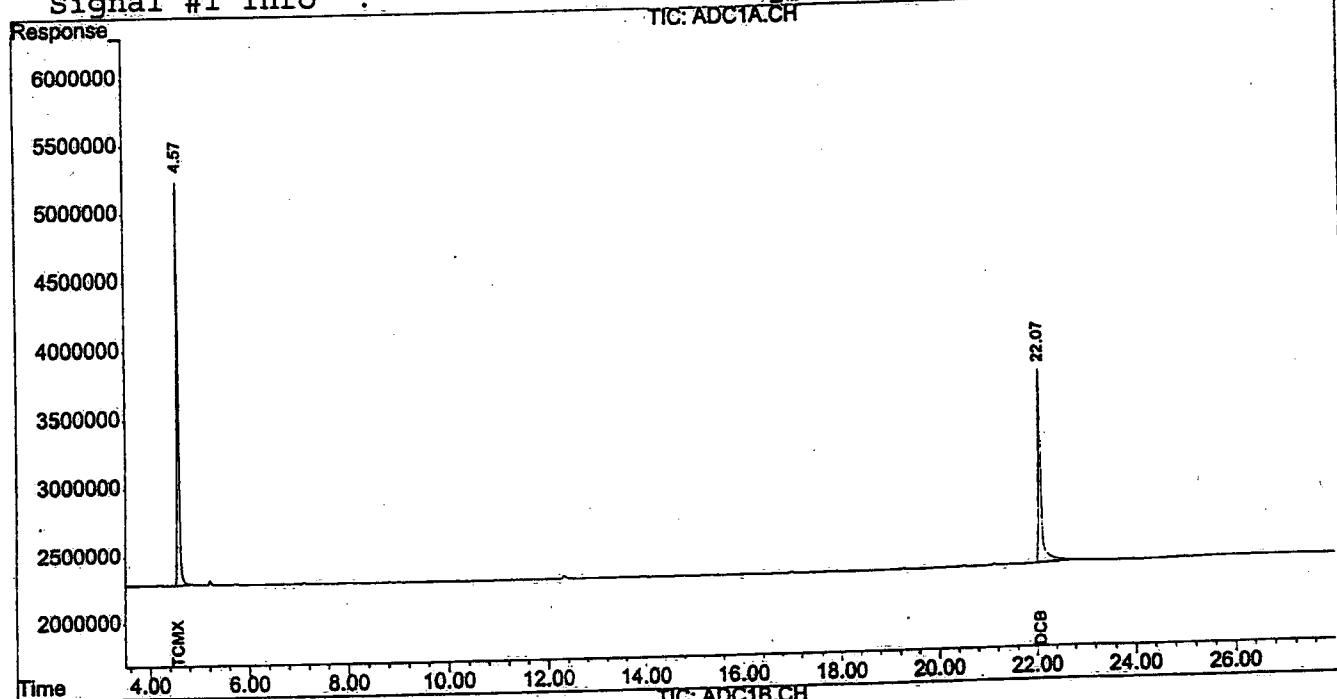
All amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4436.D\ADC1A.CH Vial: 4
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4436.D\ADC1B.CH
 Acq On : 22 Feb 2001 15:27 Operator:
 Sample : (1061..1071),0222-BLK1,S,30.0g,0,02/22/0 Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 8:13 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :	Signal #2 Phase:
Signal #1 Phase :	Signal #2 Info :
Signal #1 Info :	



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4434.D\ADC1A.CH Vial: 2
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4434.D\ADC1B.CH
 Acq On : 22 Feb 2001 14:25 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 22 14:42:20 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
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System Monitoring Compounds

1) S TCMX	4.57	5.03	88227945	84239907	98.937	106.491
Spiked Amount	100.000				Recovery =	98.94%
2) S DCB	22.08	23.35	73464881	55535980	92.904	105.384
Spiked Amount	100.000				Recovery =	92.90%

Target Compounds

3) L2 Aroclor-1016	5.37	6.48	6245448	5714830	956.862	1094.462
4) L2 Aroclor-1016	{2}	6.43	5335626	11562002	1057.060	1131.484
5) L2 Aroclor-1016	{3}	6.86	9012740	23471590	1045.844	1152.661
6) L2 Aroclor-1016	{4}	8.71	4557599	12037259	1062.565	1156.012
7) L2 Aroclor-1016	{5}	9.18	6198528	9634887	1044.976m	1120.500
Sum Aroclor-1016			31349941	62420568	5167.306	5655.119
Average Aroclor-1016					1033.461	1131.024

Sum Aroclor-1221	0	0	N.D.	N.D.
Average Aroclor-1221			0.000	0.000

Sum Aroclor-1232	0	0	N.D.	N.D.
Average Aroclor-1232			0.000	0.000

Sum Aroclor-1242	0	0	N.D.	N.D.
Average Aroclor-1242			0.000	0.000

Sum Aroclor-1248	0	0	N.D.	N.D.
Average Aroclor-1248			0.000	0.000

Sum Aroclor-1254	0	0	N.D.	N.D.
Average Aroclor-1254			0.000	0.000

3) L8 Aroclor-1260	14.80	15.47	38598484	32365276	1049.881	1104.299
4) L8 Aroclor-1260	{2}	15.35	27067409	34389411	1038.582	1099.638
5) L8 Aroclor-1260	{3}	17.00	47296887	16881212	1062.453	1108.028
6) L8 Aroclor-1260	{4}	17.92	19552577	35542380	1090.829	1127.712
7) L8 Aroclor-1260	{5}	19.96	7488949	2849895	1112.317	1003.887
Sum Aroclor-1260			140.0E6	122.0E6	5354.062	5443.564
Average Aroclor-1260					1070.812	1088.713

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4466.D\ADC1A.CH Vial: 2
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4466.D\ADC1B.CH
 Acq On : 23 Feb 2001 8:41 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 23 09:07:37 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S TCMX	4.57	5.03	83606614	78226619	93.755	98.889
Spiked Amount	100.000				Recovery =	93.75%
2) S DCB	22.07	23.34	74784358	54069395	94.572	102.601
Spiked Amount	100.000				Recovery =	94.57%

Target Compounds

1) L2 Aroclor-1016	5.37	6.47	6846840	5362393	1049.001m	1026.966
4) L2 Aroclor-1016 {2}	6.43	7.56	5087821	10505876	1007.966	1028.129
5) L2 Aroclor-1016 {3}	6.86	8.92	8646395	21615445	1003.333	1061.508
6) L2 Aroclor-1016 {4}	8.71	9.34	4123637	10857295	961.390	1042.693
7) L2 Aroclor-1016 {5}	9.18	9.68	5905759	8521041	995.619	990.964
Sum Aroclor-1016			30610452	56862049	5017.310	5150.260
Average Aroclor-1016					1003.462	1030.052

Sum Aroclor-1221	0	0	N.D.	N.D.
Average Aroclor-1221			0.000	0.000

Sum Aroclor-1232	0	0	N.D.	N.D.
Average Aroclor-1232			0.000	0.000

Sum Aroclor-1242	0	0	N.D.	N.D.
Average Aroclor-1242			0.000	0.000

Sum Aroclor-1248	0	0	N.D.	N.D.
Average Aroclor-1248			0.000	0.000

Sum Aroclor-1254	0	0	N.D.	N.D.
Average Aroclor-1254			0.000	0.000

3) L8 Aroclor-1260	14.79	15.47	35612156	28407147	968.652m	969.248
34) L8 Aroclor-1260 {2}	15.35	16.59	24610447	30502437	944.308	975.348
5) L8 Aroclor-1260 {3}	16.99	17.83	44649295	14977708	1002.979	983.088
6) L8 Aroclor-1260 {4}	17.92	18.76	18795683	32896748	1048.602	1043.770
37) L8 Aroclor-1260 {5}	19.96	21.13	7072266	2850686	1050.428	1004.165
Sum Aroclor-1260			130.7E6	109.6E6	5014.970	4975.620
Average Aroclor-1260					1002.994	995.124

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

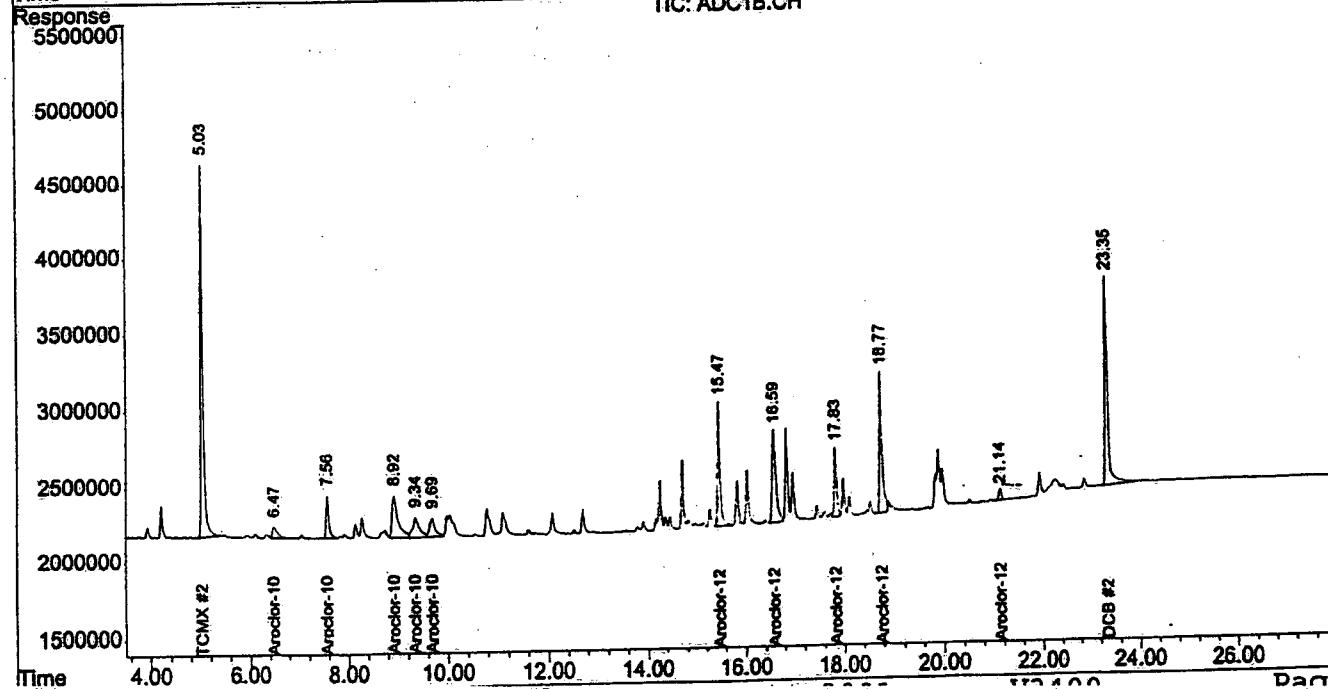
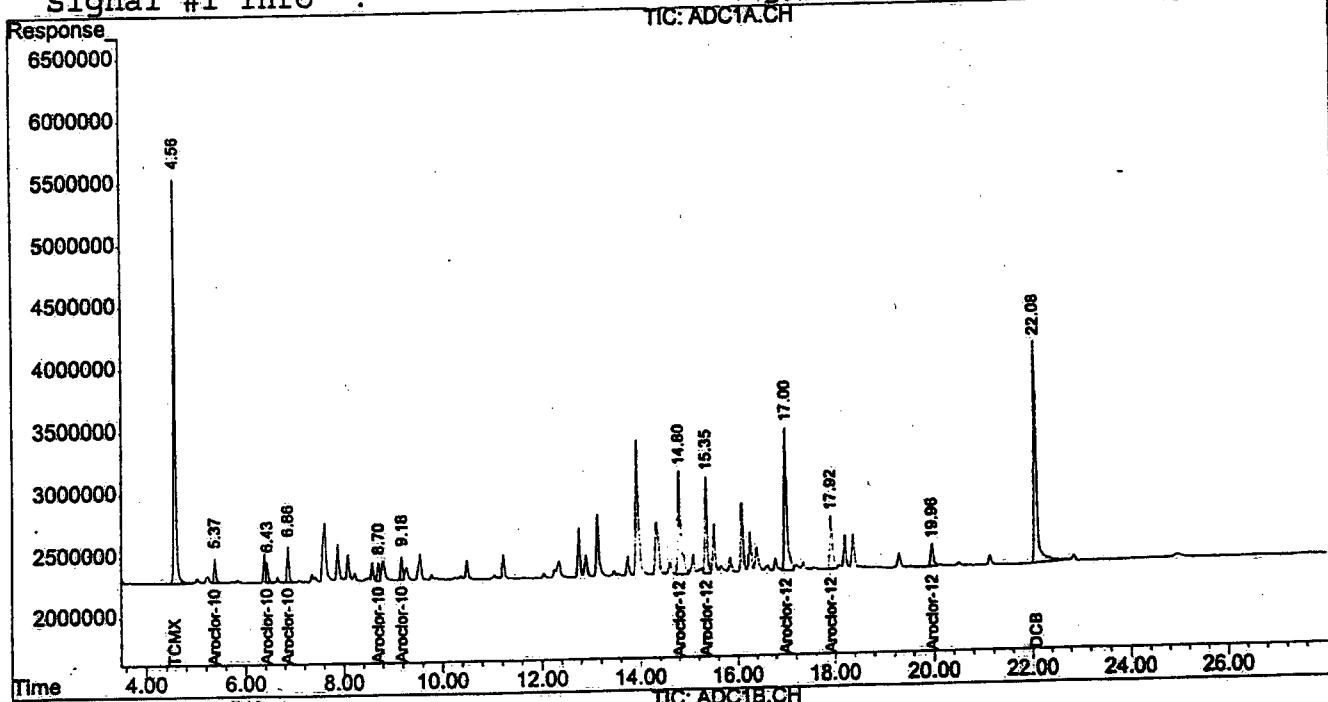
V4466.D VPCB0220.M Mon Feb 26 08:53:42 2001 V3400 Page 1

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4434.D\ADC1A.CH Vial: 2
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4434.D\ADC1B.CH
 Acq On : 22 Feb 2001 14:25 Operator:
 Sample : 8082_C IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 22 14:47 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4466.D\ADC1A.CH Vial: 2
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4466.D\ADC1B.CH
 Acq On : 23 Feb 2001 8:41 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 23 09:07:37 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
	System Monitoring Compounds						
1) S TCMX		4.57	5.03	83606614	78226619	93.755	98.889
Spiked Amount	100.000			Recovery	=	93.75%	98.89%
2) S DCB		22.07	23.34	74784358	54069395	94.572	102.601
Spiked Amount	100.000			Recovery	=	94.57%	102.60%
<hr/>							
Target Compounds							
3) L2 Aroclor-1016		5.37	6.47	6846840	5362393	1049.001m	1026.966
4) L2 Aroclor-1016	{2}	6.43	7.56	5087821	10505876	1007.966	1028.129
5) L2 Aroclor-1016	{3}	6.86	8.92	8646395	21615445	1003.333	1061.508
6) L2 Aroclor-1016	{4}	8.71	9.34	4123637	10857295	961.390	1042.693
7) L2 Aroclor-1016	{5}	9.18	9.68	5905759	8521041	995.619	990.964
Sum Aroclor-1016				30610452	56862049	5017.310	5150.260
Average Aroclor-1016						1003.462	1030.052
<hr/>							
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
<hr/>							
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
<hr/>							
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
<hr/>							
Sum Aroclor-1248				0	0	N.D.	N.D.
Average Aroclor-1248						0.000	0.000
<hr/>							
Sum Aroclor-1254				0	0	N.D.	N.D.
Average Aroclor-1254						0.000	0.000
<hr/>							
3) L8 Aroclor-1260		14.79	15.47	35612156	28407147	968.652m	969.248
4) L8 Aroclor-1260	{2}	15.35	16.59	24610447	30502437	944.308	975.348
5) L8 Aroclor-1260	{3}	16.99	17.83	44649295	14977708	1002.979	983.088
6) L8 Aroclor-1260	{4}	17.92	18.76	18795683	32896748	1048.602	1043.770
37) L8 Aroclor-1260	{5}	19.96	21.13	7072266	2850686	1050.428	1004.165
Sum Aroclor-1260				130.7E6	109.6E6	5014.970	4975.620
Average Aroclor-1260						1002.994	995.124
<hr/>							

Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4452.D\ADC1A.CH Vial: 20
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4452.D\ADC1B.CH
 Acq On : 22 Feb 2001 23:40 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 23 06:59:23 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S TCMX	4.57	5.03	84668260	83298681	93.873	104.719
Spiked Amount	100.000				Recovery =	93.87% 104.72%
2) S DCB	22.07	23.35	70264216	52024262	86.921	96.043
Spiked Amount	100.000				Recovery =	86.92% 96.04%

Target Compounds

3) L2 Aroclor-1016	5.37	6.48	5975015	5190253	915.429	993.999
4) L2 Aroclor-1016	{2}	6.43	5051909	10997171	1000.851	1076.209
5) L2 Aroclor-1016	{3}	6.86	8535392	21997897	990.453	1080.290
6) L2 Aroclor-1016	{4}	8.71	4381842	11210305	1021.588	1076.594
7) L2 Aroclor-1016	{5}	9.18	6487541	8943899	1093.699	1040.141
Sum Aroclor-1016			30431699	58339525	5022.020	5267.232
Average Aroclor-1016					1004.404	1053.446

Sum Aroclor-1221	0	0	N.D.	N.D.
Average Aroclor-1221			0.000	0.000

Sum Aroclor-1232	0	0	N.D.	N.D.
Average Aroclor-1232			0.000	0.000

Sum Aroclor-1242	0	0	N.D.	N.D.
Average Aroclor-1242			0.000	0.000

Sum Aroclor-1248	0	0	N.D.	N.D.
Average Aroclor-1248			0.000	0.000

Sum Aroclor-1254	0	0	N.D.	N.D.
Average Aroclor-1254			0.000	0.000

3) L8 Aroclor-1260	14.79	15.47	34454417	28450668	937.162	970.733
4) L8 Aroclor-1260	{2}	15.35	23850537	31053498	915.150m	992.968
5) L8 Aroclor-1260	{3}	17.00	41513559	14581859	-932.539	957.106
6) L8 Aroclor-1260	{4}	17.92	17234926	31382049	961.528	995.710
7) L8 Aroclor-1260	{5}	19.96	6552809	2721463	973.274	958.646
Sum Aroclor-1260			123.6E6	108.2E6	4719.654	4875.164
Average Aroclor-1260					943.931	975.033

Quantitation Report (OT Reviewed)

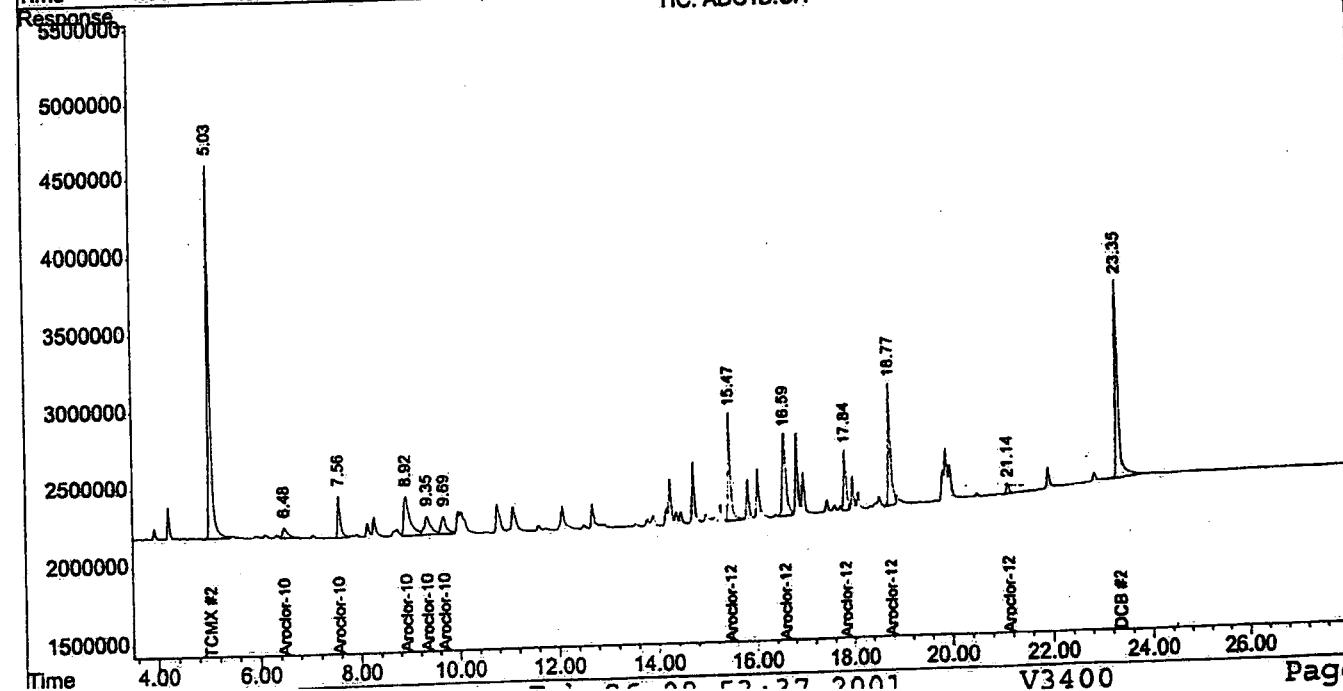
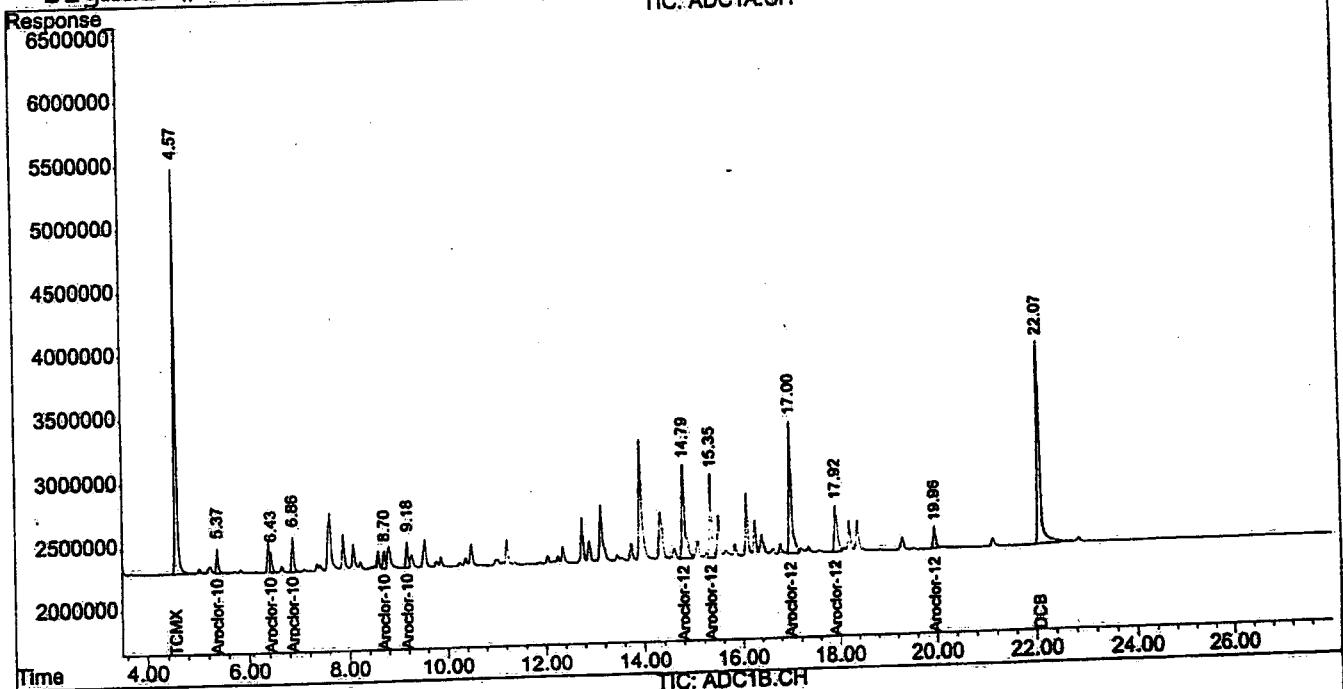
Signal #1 : C:\MSDCHEM\1\DATA\02-22-01\V4452.D\ADC1A.CH Vial: 20
 Signal #2 : C:\MSDCHEM\1\DATA\02-22-01\V4452.D\ADC1B.CH
 Acq On : 22 Feb 2001 23:40 Operator:
 Sample : 8082 C IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 23 7:13 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase :
 Signal #1 Info :

Signal #2 Phase:
 Signal #2 Info :

TIC: ADC1A.CH

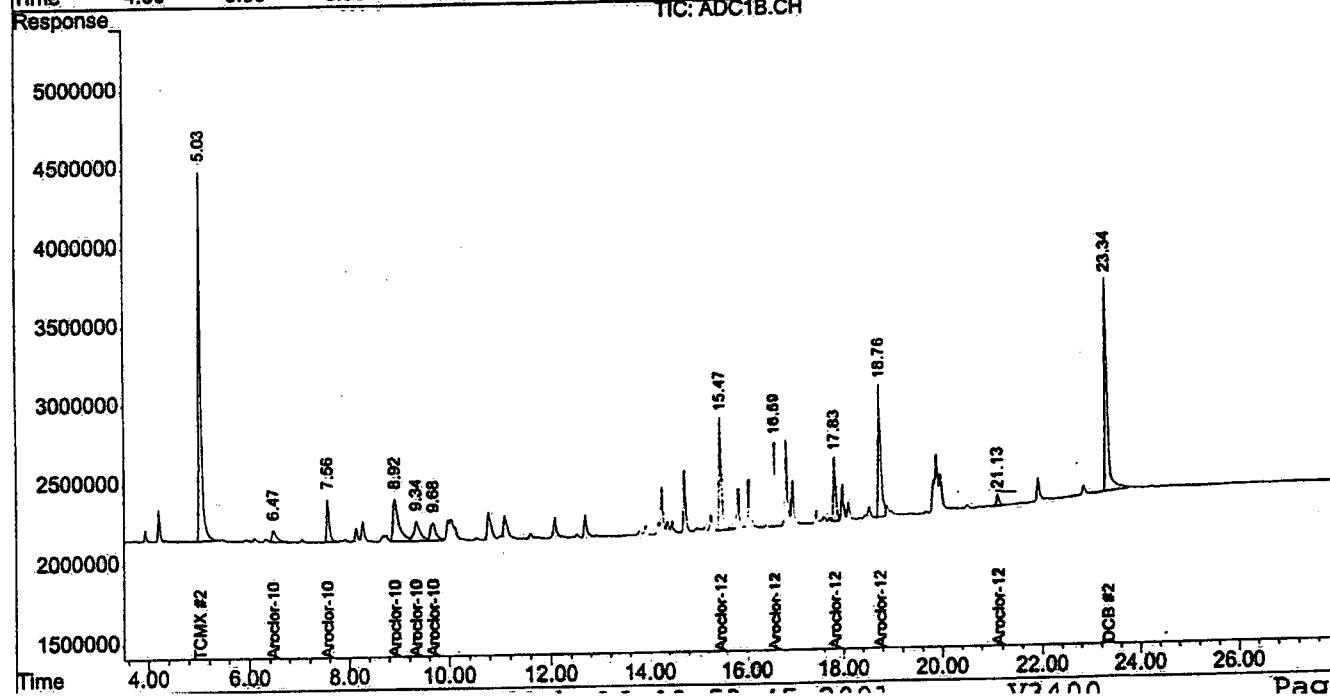
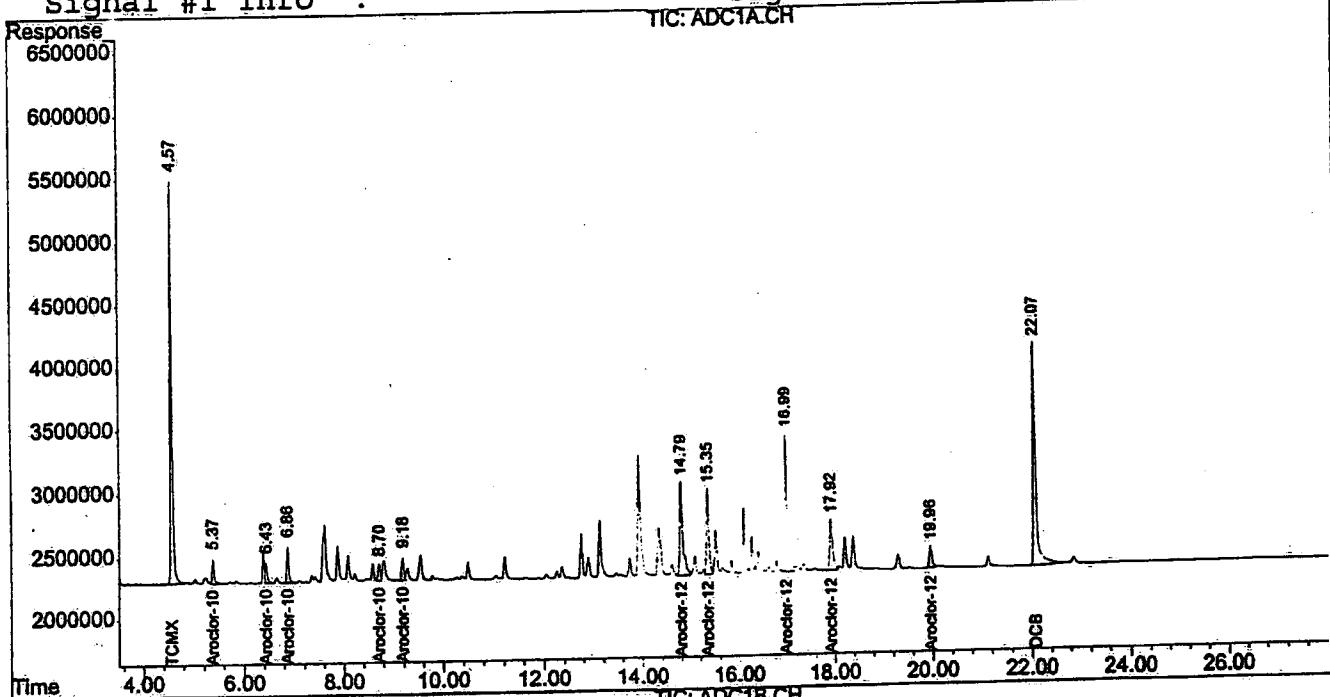


Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4466.D\ADC1A.CH Vial: 2
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4466.D\ADC1B.CH
 Acq On : 23 Feb 2001 8:41 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 23 9:10 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4484.D\ADC1A.CH Vial: 20
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4484.D\ADC1B.CH
 Acq On : 23 Feb 2001 17:56 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:00:30 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
	System Monitoring Compounds						
1) S TCMX		4.58	5.04	83298612	81859667	92.355	102.910
Spiked Amount	100.000			Recovery	=	92.36%	102.91%
2) S DCB		22.09	23.37	72911881	56049359	90.196	103.474
Spiked Amount	100.000			Recovery	=	90.20%	103.47%
<hr/>							
Target Compounds							
3) L2 Aroclor-1016		5.39	6.49	6494649	5486510	995.042m	1050.736
L2 Aroclor-1016 {2}		6.44	7.58	4933112	10714680	977.316	1048.563
L2 Aroclor-1016 {3}		6.88	8.94	8355894	21249236	969.623	1043.524
6) L2 Aroclor-1016 {4}		8.72	9.37	4266491	10906872	994.695	1047.454
7) L2 Aroclor-1016 {5}		9.19	9.71	6197384	8662635	1044.783	1007.431
Sum Aroclor-1016				30247529	57019933	4981.460	5197.708
Average Aroclor-1016						996.292	1039.542
<hr/>							
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
<hr/>							
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
<hr/>							
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
<hr/>							
Sum Aroclor-1248				0	0	N.D.	N.D.
Average Aroclor-1248						0.000	0.000
<hr/>							
Sum Aroclor-1254				0	0	N.D.	N.D.
Average Aroclor-1254						0.000	0.000
<hr/>							
3) L8 Aroclor-1260		14.81	15.50	36582175	29842689	995.037m	1018.229
34) L8 Aroclor-1260 {2}		15.37	16.61	24886357	32785790	954.895	1048.360
5) L8 Aroclor-1260 {3}		17.01	17.86	44481020	15481682	999.199	1016.168
6) L8 Aroclor-1260 {4}		17.93	18.79	18394358	33733271	1026.212	1070.312
L8 Aroclor-1260 {5}		19.98	21.16	6479956	2939119	962.454	1035.316
Sum Aroclor-1260				130.8E6	114.8E6	4937.796	5188.385
Average Aroclor-1260						987.559.	1037.677
<hr/>							

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

V4484.D VPCB0220.M Mon Feb 26 08:55:43 2001

V3400

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Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4484.D\ADC1A.CH Vial: 20
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4484.D\ADC1B.CH
 Acq On : 23 Feb 2001 17:56 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 7:58 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

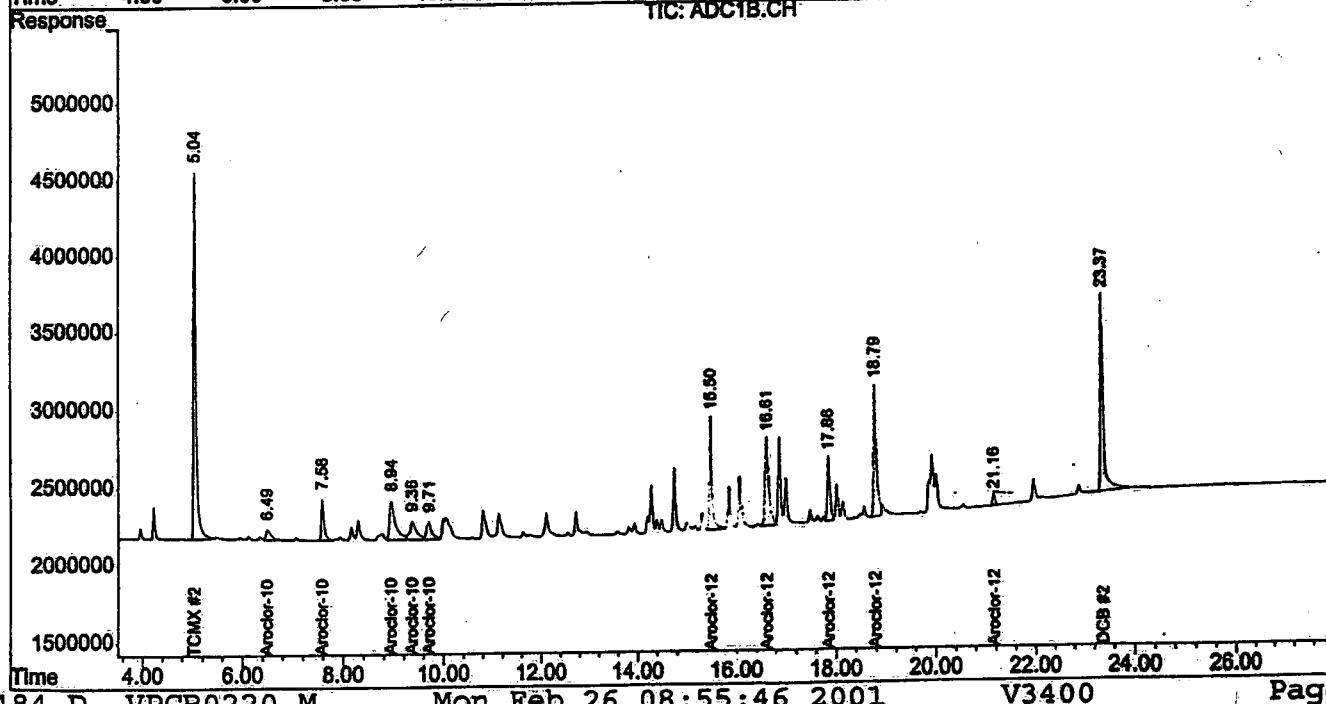
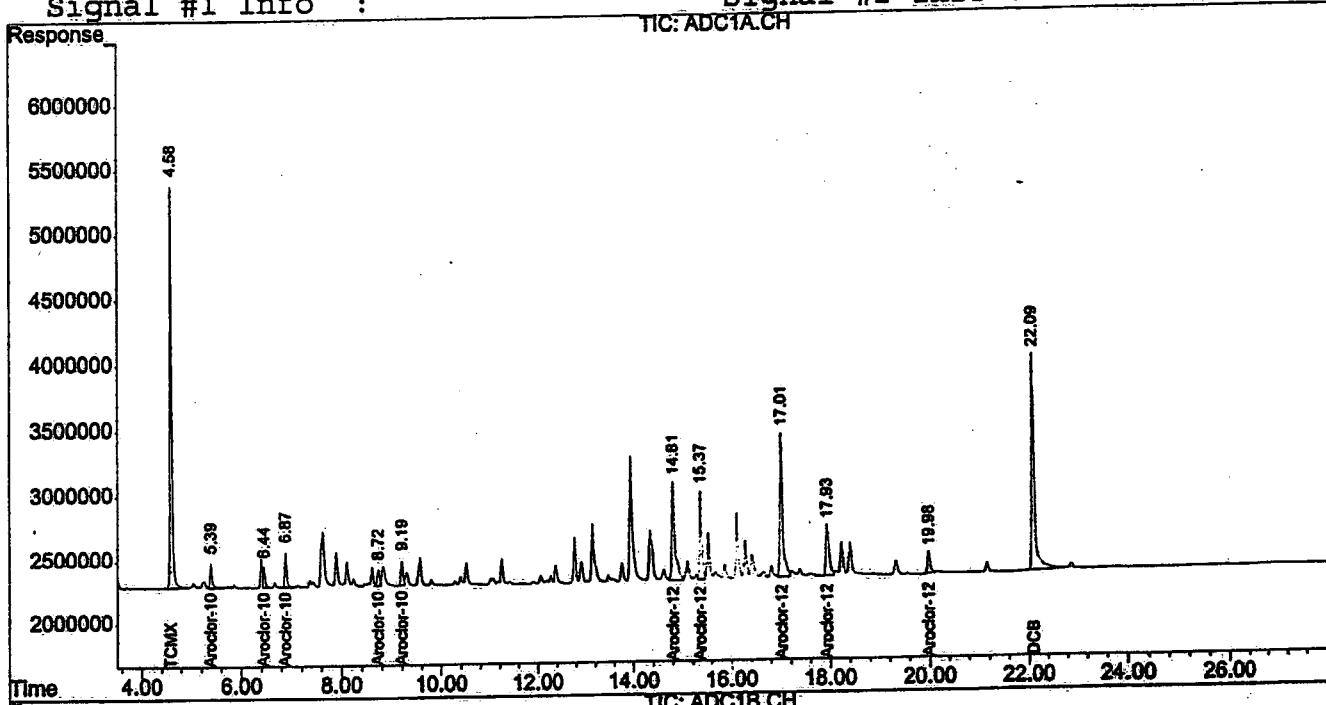
Volume Inj. :

Signal #1 Phase :

Signal #1 Info :

Signal #2 Phase:

Signal #2 Info :



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4495.D\ADC1A.CH Vial: 31
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4495.D\ADC1B.CH
 Acq On : 23 Feb 2001 23:36 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 07:01:44 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

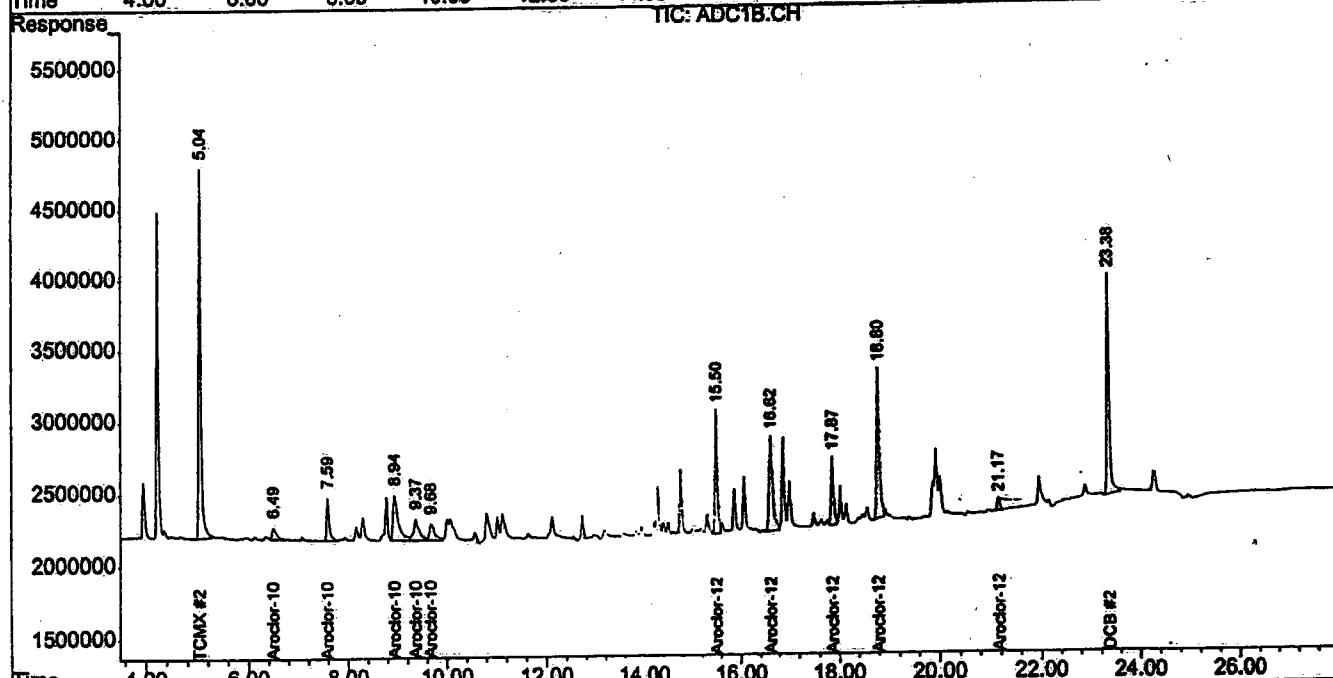
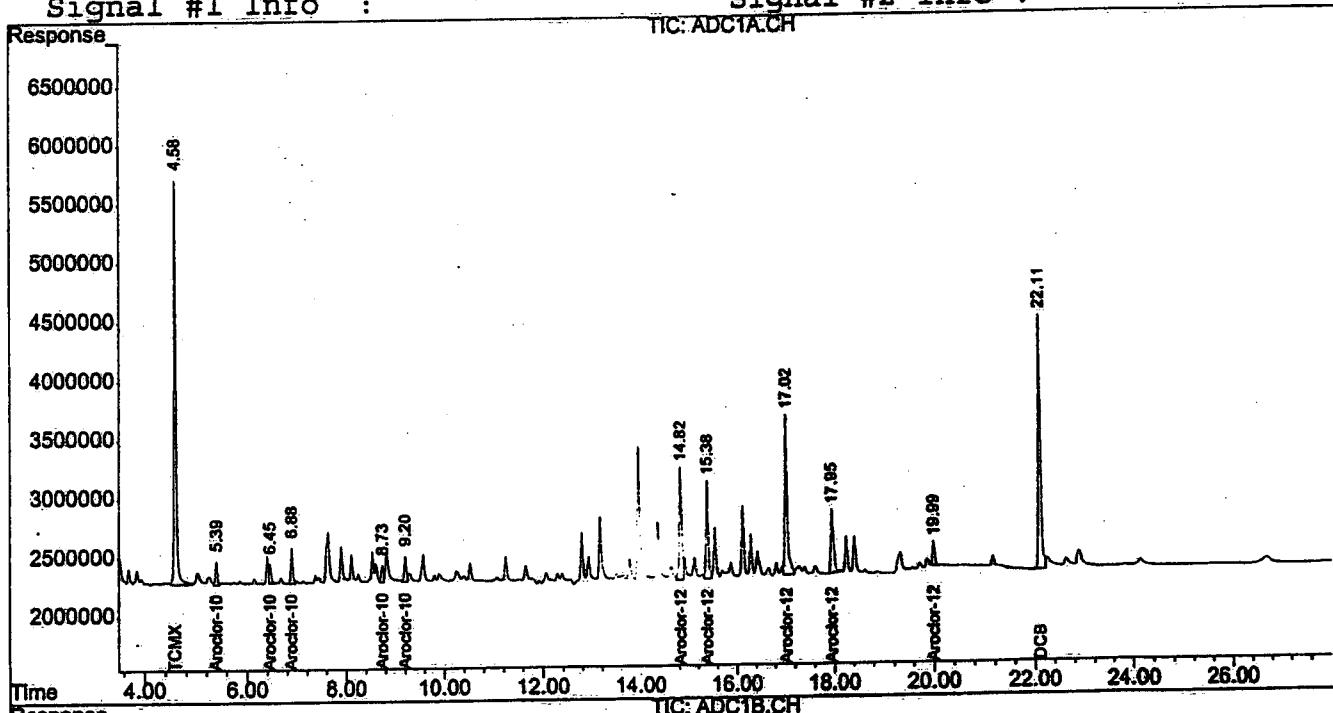
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	4.58	5.04	93356525	83833471	103.506	105.392
Spiked Amount	100.000				Recovery =	103.51%
2) S DCB	22.11	23.38	77770738	58155456	96.207	107.362
Spiked Amount	100.000				Recovery =	96.21%
<hr/>						
Target Compounds						
3) L2 Aroclor-1016	5.39	6.49	5881550	5316748	901.110m	1018.224
L2 Aroclor-1016 {2}	6.45	7.59	4974000	11449656	985.417	1120.490
L2 Aroclor-1016 {3}	6.88	8.94	8854103	24011555	1027.436	1179.178
L2 Aroclor-1016 {4}	8.73	9.37	4762962	11713175	1110.443	1124.888
L2 Aroclor-1016 {5}	9.20	9.68	6988375	8604977	1178.132	1000.725
Sum Aroclor-1016			31460991	61096111	5202.537	5443.506
Average Aroclor-1016					1040.507	1088.701
<hr/>						
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
<hr/>						
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
<hr/>						
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
<hr/>						
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
<hr/>						
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
<hr/>						
3) L8 Aroclor-1260	14.82	15.50	36609184	32428880	995.771	1106.469
L8 Aroclor-1260 {2}	15.38	16.62	28776517	37449167	1104.161	1197.477
L8 Aroclor-1260 {3}	17.02	17.87	51580674	17439643	1158.682	1144.682
L8 Aroclor-1260 {4}	17.95	18.80	22171514	38905563	1236.938m	1234.421m
L8 Aroclor-1260 {5}	19.99	21.17	6943712	3271538	1031.334m	1152.412m
Sum Aroclor-1260			146.1E6	129.5E6	5526.887	5835.462
Average Aroclor-1260					1105.377	1167.092
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Signal #1 : C:\MSDCHEM\1\DATA\02-23-01\V4495.D\ADC1A.CH Vial: 31
 Signal #2 : C:\MSDCHEM\1\DATA\02-23-01\V4495.D\ADC1B.CH
 Acq On : 23 Feb 2001 23:36 Operator:
 Sample : 8082_C_IAS_1385,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 26 8:10 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4349.D\ADC1A.CH Vial: 4
 Signal #2 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4349.D\ADC1B.CH
 Acq On : 20 Feb 2001 12:26 Operator:
 Sample : 8082_1248_IAS1381,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplir: 1.00
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 21 07:24:01 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S TCMX	4.58	5.05	74124626	66856540	82.183	84.049	
Spiked Amount	100.000			Recovery	= 82.18%	84.05%	
2) S DCB		22.11	23.39	71735981	47966148	88.742	88.552
Spiked Amount	100.000			Recovery	= 88.74%	88.55%	

Target Compounds

Sum Aroclor-1016		0	0	N.D.	N.D.
Average Aroclor-1016				0.000	0.000

Sum Aroclor-1221		0	0	N.D.	N.D.
Average Aroclor-1221				0.000	0.000

Sum Aroclor-1232		0	0	N.D.	N.D.
Average Aroclor-1232				0.000	0.000

Sum Aroclor-1242		0	0	N.D.	N.D.
Average Aroclor-1242				0.000	0.000

23) L6 Aroclor-1248	7.62	8.96	13154838	10791937	1000.000	1000.000	
24) L6 Aroclor-1248	{2}	8.73	10.08	4317955	9860034	1000.000	1000.000
25) L6 Aroclor-1248	{3}	9.30	10.82	4312165	9311880	1000.000	1000.000
26) L6 Aroclor-1248	{4}	10.50	11.14	11747652	9670865	1000.000	1000.000
27) L6 Aroclor-1248	{5}	11.02	11.78	10386899	4552157	1000.000	1000.000
Sum Aroclor-1248				43919508	44186872	5000.000	5000.000
Average Aroclor-1248						1000.000	1000.000

Sum Aroclor-1254		0	0	N.D.	N.D.
Average Aroclor-1254				0.000	0.000

Sum Aroclor-1260		0	0	N.D.	N.D.
Average Aroclor-1260				0.000	0.000

Quantitation Report (QT Reviewed)

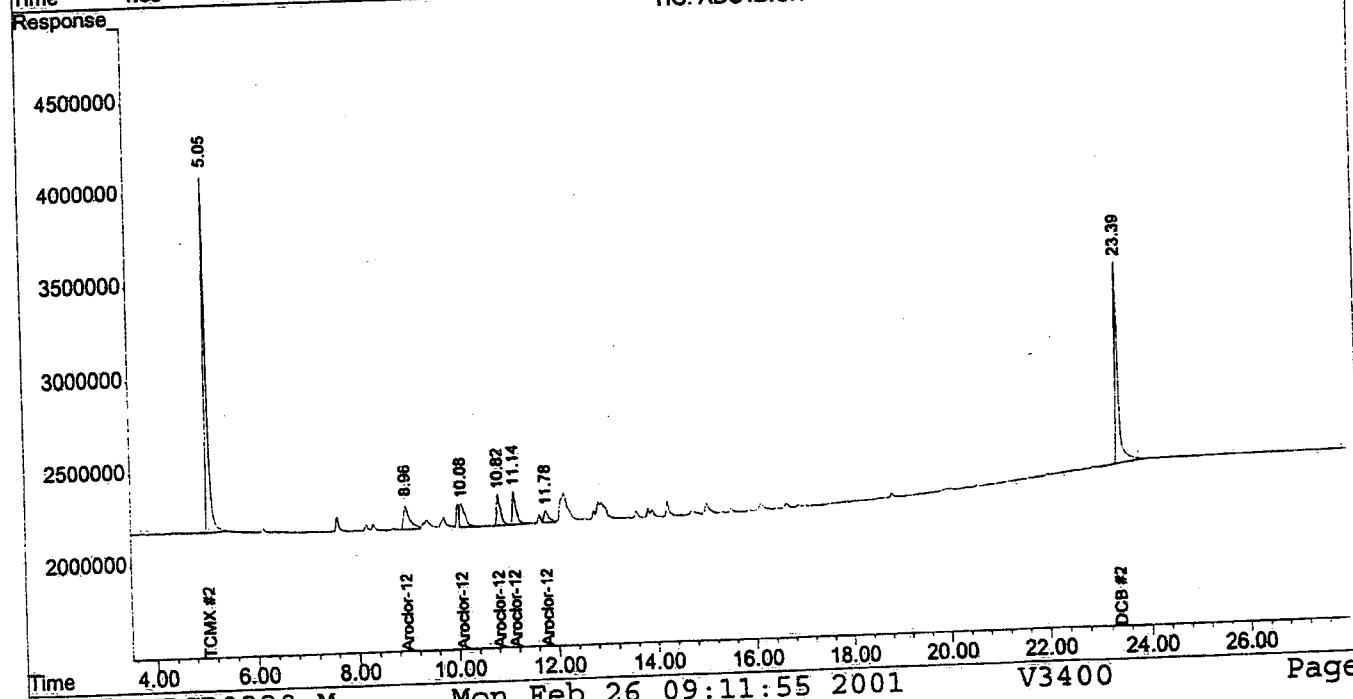
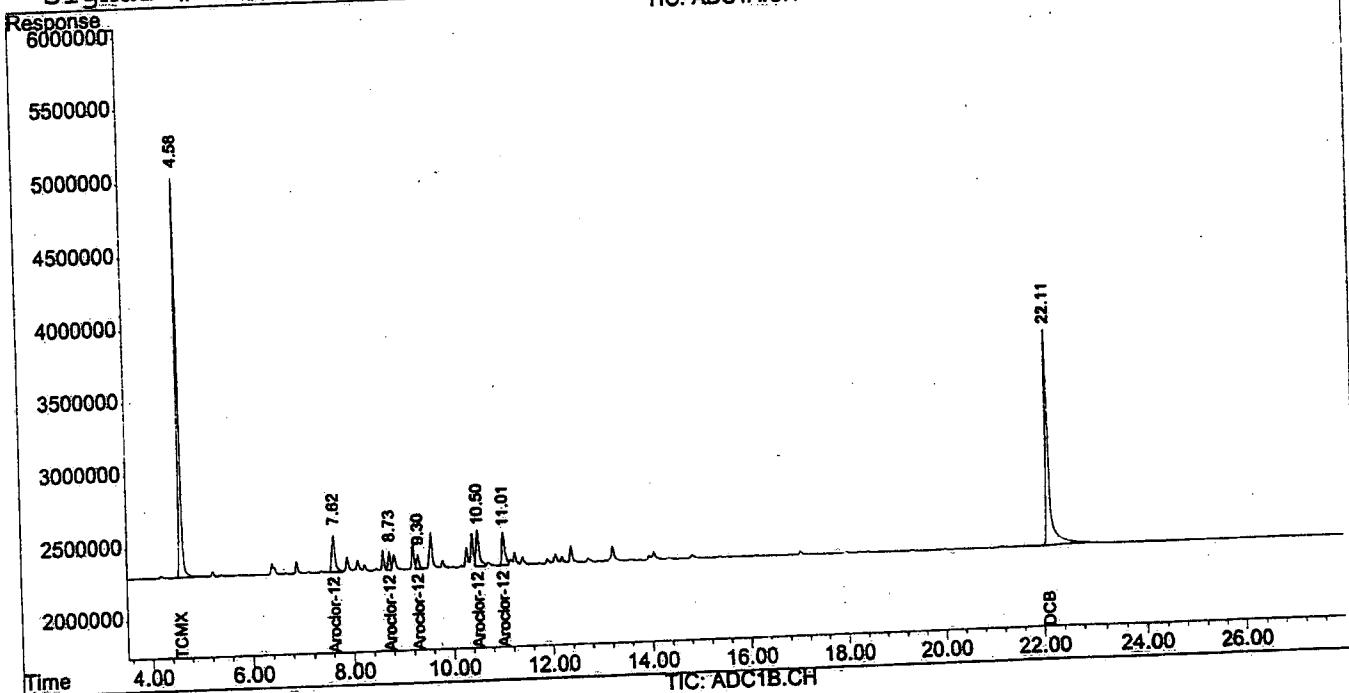
Signal #1 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4349.D\ADC1A.CH Vial: 4
 Signal #2 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4349.D\ADC1B.CH
 Acq On : 20 Feb 2001 12:26 Operator:
 Sample : 8082_1248_IAS1381,1_PPM Inst : V_3400
 Misc : NA,NA,NA,1 Multiplr: 1.00
 IntFile Signal #1: events.e Quant Results File: VPCB0220.RES
 Quant Time: Feb 21 7:32 2001

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:17:40 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. : Signal #2 Phase:
 Signal #1 Phase : Signal #2 Info :
 Signal #1 Info :

TIC: ADC1A.CH



Quantitation Report (Not Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4350.D\ADC1A.CH Vial: 5
 Signal #2 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4350.D\ADC1B.CH
 Acq On : 20 Feb 2001 12:57
 Sample : 8082_1254_IAS1382,1_PPM
 Misc : NA,NA,NA,1
 Operator:
 Inst : V_3400
 Multiplr: 1.00

IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 21 07:33:44 2001 Quant Results File: VPCB0220.RES

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)

Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Initial Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1) S	TCMX	4.58	5.05	77652999	71965948	87.079	90.975
	Spiked Amount	100.000			Recovery	= 87.08%	90.97%
2) S	DCB		22.11	23.40	67788146	45006336	85.725
	Spiked Amount	100.000			Recovery	= 85.72%	85.40%
<hr/>							
System Monitoring Compounds							
Sum Aroclor-1016				0	0	N.D.	N.D.
Average Aroclor-1016						0.000	0.000
Sum Aroclor-1221				0	0	N.D.	N.D.
Average Aroclor-1221						0.000	0.000
Sum Aroclor-1232				0	0	N.D.	N.D.
Average Aroclor-1232						0.000	0.000
Sum Aroclor-1242				0	0	N.D.	N.D.
Average Aroclor-1242						0.000	0.000
Sum Aroclor-1248				0	0	N.D.	N.D.
Average Aroclor-1248						0.000	0.000
28) L7	Aroclor-1254	11.25	12.74	13413157	10213488	1000.000	1000.000
29) L7	Aroclor-1254	{2}	12.07	13.84	9157821	6632136	1000.000
30) L7	Aroclor-1254	{3}	13.22	15.02	17513347	10757582	1000.000
31) L7	Aroclor-1254	{4}	13.96	15.52	25596755	11969281	1000.000
32) L7	Aroclor-1254	{5}	14.83	16.65	22969804	17604492	1000.000
	Sum Aroclor-1254				88650883	57176980	5000.000
	Average Aroclor-1254					1000.000	1000.000
Sum Aroclor-1260				0	0	N.D.	N.D.
Average Aroclor-1260						0.000	0.000

Quantitation Report (Not Reviewed)

Signal #1 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4350.D\ADC1A.CH Vial: 5
 Signal #2 : C:\MSDCHEM\1\DATA\V-FEB-01\02-20-01\V4350.D\ADC1B.CH
 Acq On : 20 Feb 2001 12:57
 Sample : 8082_1254_IAS1382,1_PPM
 Misc : NA,NA,NA,1
 IntFile Signal #1: events.e IntFile Signal #2: events2.e
 Quant Time: Feb 21 7:34 2001 Quant Results File: VPCB0220.RES
 Operator:
 Inst : V_3400
 Multiplr: 1.00

Quant Method : C:\MSDCHEM\1\METHODS\VPCB0220.M (Chemstation Integrator)
 Title :
 Last Update : Wed Feb 21 07:33:38 2001
 Response via : Multiple Level Calibration
 DataAcq Meth : VPCB0220.M

Volume Inj. :

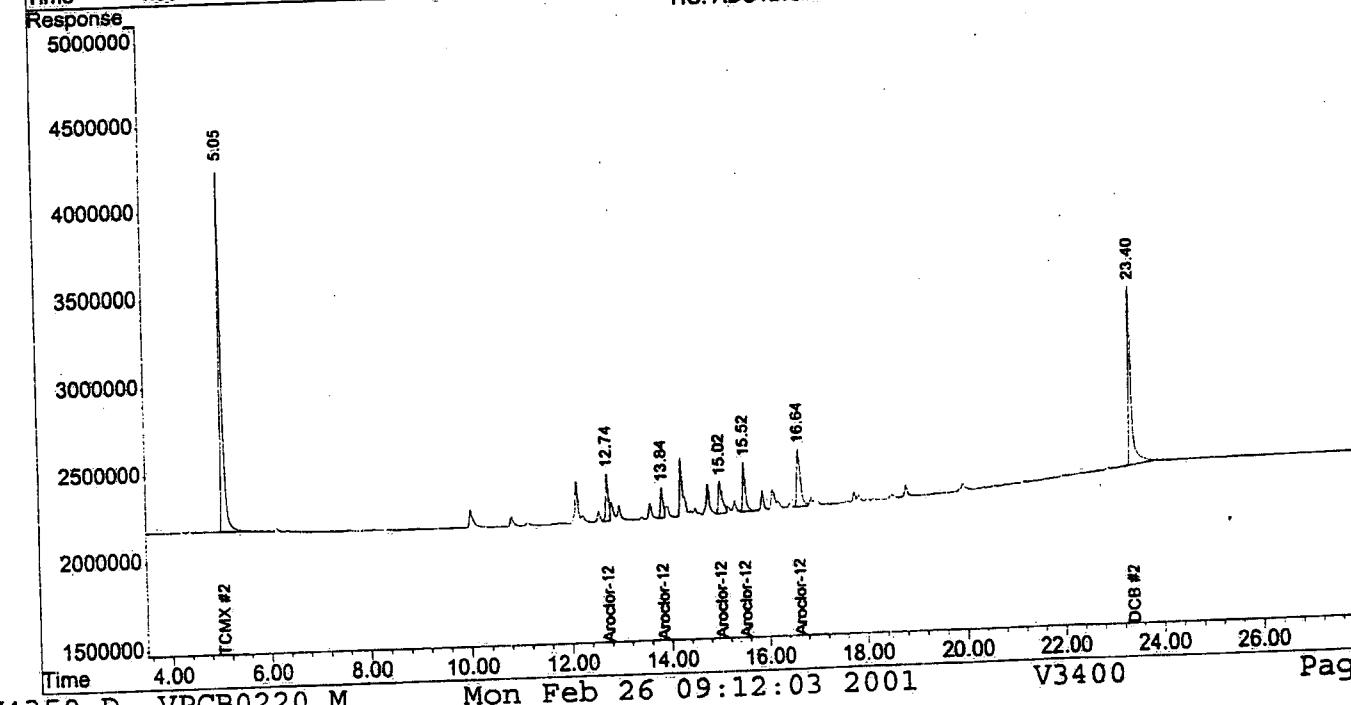
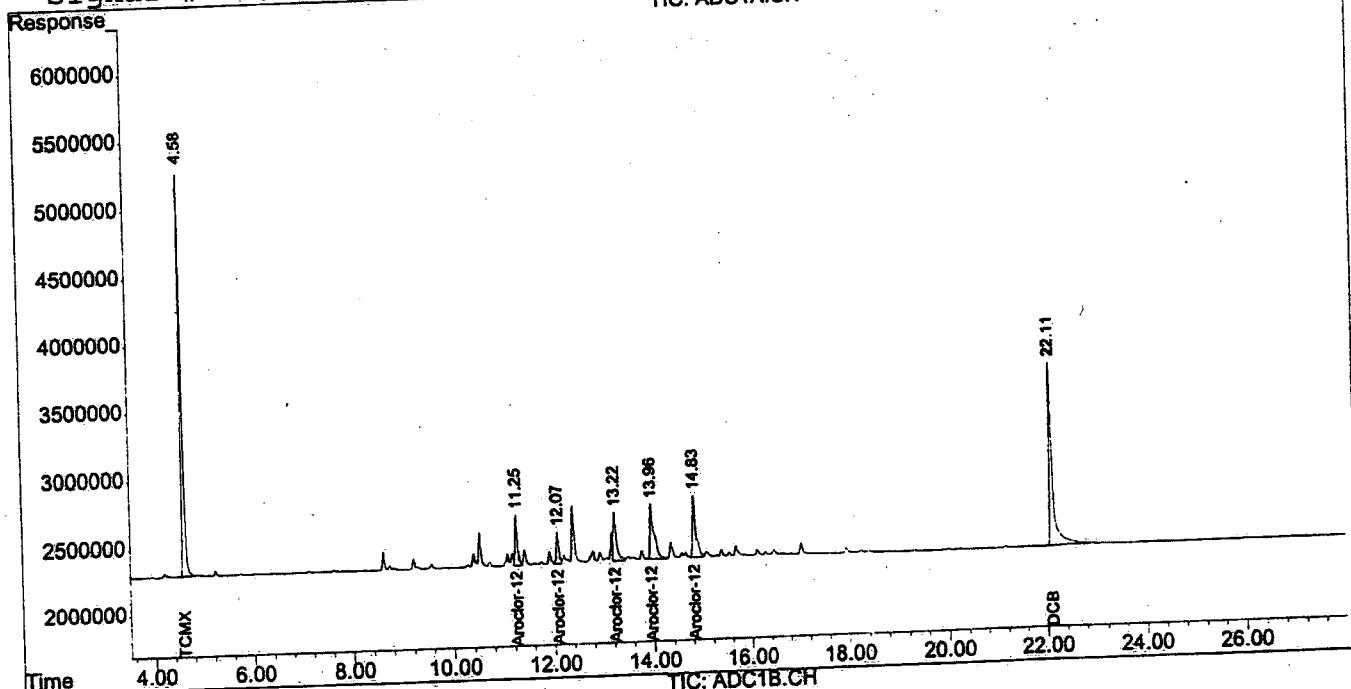
Signal #2 Phase:

Signal #1 Phase:

Signal #2 Info:

Signal #1 Info:

TIC: ADCTA.CH



INTEGRATED ANALYTICAL LABORATORIES
CHAIN OF CUSTODY

1973) 361-4252
733, 989-3288

REPORTING

my Name: Bill Environment Corp Fax #: CEG

Fax #:

Report to: CEG

Address:

245 West Ave
Long Branch
NJ 07740

Phone #:

571-2167

Invoice to: CEG

Address:

571-0981

ect Name: Baedonnee Bennett

ect Manager: L

PO#:

Reference ID#:

PO#:

SAMPLE INFORMATION

Sample ID	Sample Description	Date	Time	Matrix	# of Containers	Lab ID
SS-7		2/19/01	1115	Y	3	01
SS-10		1130		Y	1	
SS-6		1145		Y	1	3
SS-15		1200		Y	4	
SS-5		1205		Y	5	
SS-14		1230		Y	6	
SS-4		1245		Y	7	
SS-13		1300		Y	8	
SS-3		1315		Y	9	
SS-12		1330		Y	10	

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

CUSTODY LOG	Signature	Date	Time	Comments
Relinquished by: <u>John Galle</u>	<u>John Galle</u>	2/20/01	1240	Received by: <u>John Galle</u>
Relinquished by: <u>John Galle</u>	<u>John Galle</u>	2/21/01	1530	Received by: <u>John Galle</u>
Relinquished by:				Received by:
Relinquished by:				Received by:
Relinquished by:				Received by:

Turnaround Time	Report Format
Conditional/TPHC	Results Only
24 hr*	48 hr
72 hr*	72 hr
24 hr*	48 hr*
72 hr*	1 wk*
72 hr*	2 wk*
72 hr*	3 wk*
72 hr*	Other:
24 hr*	2 wk*
72 hr*	Other:

ANALYTICAL PARAMETERS / PRESERVATIVES	Comments					
1.2.3	1.2.3	1.2.3	1.2.3	1.2.3	1.2.3	Preservatives
4.5.6	4.5.6	4.5.6	4.5.6	4.5.6	4.5.6	
7.8.9	7.8.9	7.8.9	7.8.9	7.8.9	7.8.9	
COOLER TEMP: <u>4</u> °C	1. HCl	3. HNO ₃				
	2. NaOH	4. H ₂ SO ₄				
	5. MeOH	6. Other				
Known Hazard: <u>No</u>	Detected: <u>CB</u>					
Concentrations Expected: <u>LOW MED HIGH</u>	Lab Case #: <u>1071</u>					
Comments: <u></u>	PAGE: <u>1 of 3</u>					

INTEGRATED ANALYTICAL LABORATORIES
CHAIN OF CUSTODY

9731 361-4252

31-989-5288

REPORTING

HISTODYLOG

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PAGE:

一

CHAIN OF CUSTODY

Case No.: E01-1071

P.O. #: _____

Project : BAYONNE BARREL

Billing Address:

Client/Project: CILLI/BAYONNE BARREL

Cilli Environmental Group

Client Address:

Cilli Environmental Group

245 West Ave.

245 West Ave.

Long Branch, NJ 07740

Long Branch, NJ 07740

Date Received: 02/20/2001

Verbal Due: Feb 27

Time Received: 15:30

Report Due: Mar 13

Report Format: Reduced

# of Containers	1	1	1	1	1	1	1
IAL ID #	1071-001	1071-002	1071-003	1071-004	1071-005	1071-006	
Client ID #	SS-7	SS-16	SS-6	SS-15	SS-5	SS-14	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	
Sample Date	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001
Sample Time	11:15	11:30	11:45	12:00	12:15	12:30	
PCB	✓	✓	✓	✓	✓	✓	✓
% Solids	✓	✓	✓	✓	✓	✓	
Electronic Del.	✓						

Comments: NOTE 1: AS PER COC, HIGH CONCENTRATIONS EXPECTED.

CHAIN OF CUSTODY

Case No.: E01-1071

P.O. #: _____

Project : BAYONNE BARREL

Client/Project: CILLI/BAYONNE BARREL

Client Address:

Cilli Environmental Group

245 West Ave.

Billing Address:

Cilli Environmental Group

245 West Ave.

Long Branch, NJ 07740

Long Branch, NJ 07740

Date Received: 02/20/2001

Verbal Due: Feb 27

Time Received: 15:30

Report Due: Mar 13

Report Format: Reduced

# of Containers	1	1	1	1	1	1
IAL ID #	1071-007	1071-008	1071-009	1071-010	1071-011	1071-012
Client ID #	SS-4	SS-13	SS-3	SS-12	SS-2	SS-11
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001
Sample Time	12:45	13:00	13:15	13:30	13:45	14:00
PCB	✓	✓	✓	✓	✓	✓
% Solids	✓	✓	✓	✓	✓	✓

Comments: NOTE 1: AS PER COC, HIGH CONCENTRATIONS EXPECTED.

000098

CHAIN OF CUSTODY

P.O. #: _____

Case No.: E01-1071

Project : BAYONNE BARREL

Client/Project: CILLI/BAYONNE BARREL

Client Address:

Cilli Environmental Group

245 West Ave.

Billing Address:

Cilli Environmental Group

245 West Ave.

Long Branch, NJ 07740

Date Received: 02/20/2001

Time Received: 15:30

Report Format: Reduced

Long Branch, NJ 07740

Verbal Due: Feb 27

Report Due: Mar 13

# of Containers	1	1	1	1	1	1	1
IAL ID #	1071-013	1071-014	1071-015	1071-016	1071-017	1071-018	
Client ID #	SS-1	SS-10	SS-17	SS-8	SS-18	SS-9	
Matrix	Soil						
Sample Date	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001	02/19/2001
Sample Time	14:15	14:30	14:45	15:00	15:15	15:30	
PCB	✓	✓	✓	✓	✓	✓	✓
% Solids	✓	✓	✓	✓	✓	✓	✓

Comments: NOTE 1: AS PER COC, HIGH CONCENTRATIONS EXPECTED.

0000095

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO:

1071

CLIENT:

CILLI

COOLER TEMPERATURE: 2° - 6°C: (See Chain of Custody)

CHAIN OF CUSTODY:

COMPLETE / INCOMPLETE

Comments:

Sample Bottles Intact:

Comments:

Sample Labels Intact/ Correct:

Sufficient Sample Volume:

Correct bottles/ preservative:

Samples received in

holding time/ prep time:

Headspace/ bubbles in voa samples:



Samples to be subcontracted:

Preserved Sample pH checked:



(Excluding voa samples)

KEY

<input checked="" type="checkbox"/>	= YES
<input type="checkbox"/>	= NO
<input checked="" type="checkbox"/>	= N/A

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL DATE

CORRECTIVE ACTION REQUIRED:

YES

(SEE BELOW)

NO

CLIENT NOTIFIED:

YES Date/ Time: NO

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY:

INITIAL DATE